

# SCOPE AND SEQUENCE OF CLE CURRICULUM

2023

GRADES 7-12

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**CHRISTIAN LIGHT**

EDUCATION

Harrisonburg, Virginia  
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# CHRISTIAN LIGHT EDUCATION CURRICULUM

## SCOPE AND SEQUENCE

### GRADES 7–12

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# CURRICULUM OVERVIEW

## Sunrise Edition Bible

CLE Sunrise Bible (Grade 1) contains stories taken from Genesis through Acts. Each lesson is a two-page spread with a simple Bible story and an activity page. Sunrise Bible 200 is stories from the Old Testament. Its lessons are also two-page spreads with a simple Bible story and an activity page. Sunrise Bible 300 – 600 have Bible stories along with student exercises, quizzes, and tests. The 301 and 401 LightUnits are historical fiction about a family living during the time of Christ. Bible 500 has stories from Creation to the time the Israelites arrived at the Jordan River.

## Bible

This unique developmental Bible series provides an in-depth academic study of the teachings of both the Old and New Testaments. The Bible curriculum is considered one of the academic basics. Teaching basic, Biblical truths fundamental to Christianity, seven major themes are covered in most levels:

<i>Christian Growth</i>	This study begins with awareness of self and God and leads to ways of achieving victorious living.
<i>Theology Themes</i>	Students investigate major themes of the Bible, such as Christ, sin, salvation, and prayer.
<i>Attributes of God</i>	Students study facets of God's nature and how they relate to the individual.
<i>Christian Evidences</i>	Presents the "full armor of God" to equip the Christian for both temporal and eternal life.
<i>Biblical Literature</i>	Students note Psalms, Proverbs, and other books of the Bible for literary value and for their practical relationship to today's world.
<i>Biblical Geography</i>	Teaches Scripture-related geography and archeology, building an understanding of Bible life and times.
<i>Special Emphasis</i>	Each level contains a study that is uniquely appropriate for students of that age group.

LEVEL	BIBLE
<b>Sunrise 100</b>	Stories from Genesis through Acts
<b>Sunrise 200</b>	Old Testament Stories
<b>Sunrise 300</b>	New Testament Stories
<b>Sunrise 400</b>	Stories from the Gospels
<b>Sunrise 500</b>	Creation through Moses
<b>Sunrise 600</b>	Moses through Minor Prophets
<b>Sunrise 700</b>	A Study of the Gospels
<b>Sunrise 800</b>	Acts through Revelation
<b>Sunrise 900</b>	Christ in the Old Testament
<b>1000 (old 9<sup>th</sup>)</b>	New Testament Survey
<b>1100</b>	Major Themes I
<b>1200</b>	Major Themes II

<p><b>701</b></p> <p><b>The Coming of Jesus Christ</b></p> <p><b>Introduction to the Gospels</b>  The Gospel of Matthew  The Gospel of Mark  The Gospel of Luke  The Gospel of John</p> <p><b>Events Before Christ's Birth</b>  The Pre-Existence of Christ  John's Birth Foretold  The Annunciation to Mary  Mary and Elisabeth  Christ Is Born  Birth of John the Baptist  The Genealogy of Christ: Son of David  The Birth of Jesus Christ  The Shepherds Worship</p>	<p><b>702</b></p> <p><b>The Youth and Early Ministry of Jesus</b></p> <p><b>Jesus: His Childhood and Youth</b>  The Unique Child  Worshiped and Threatened  The Boy Jesus  A Voice Crying in the Wilderness</p> <p><b>The Baptism of Jesus; His First Followers</b>  Baptism and Temptation  The Lamb of God!  The Son of Adam  The First Followers of Jesus</p> <p><b>First Miracle and Cleansing of the Temple</b>  Water Made Wine  Cleansing the Temple  Teaching a Teacher  "He Must Increase"</p>	<p><b>703</b></p> <p><b>The Ministry of Jesus in Galilee</b></p> <p><b>First Healings</b>  A Healing in Cana  A Sermon in Nazareth  Healings in Capernaum  Calling His Disciples</p> <p><b>Jesus Teaches</b>  The Pharisees Criticize Jesus  After Further Offending, Jesus Withdraws  The Sermon on the Mount: The Beatitudes  The Sermon on the Mount: Salt, Light, and Law</p> <p><b>The Sermon on the Mount</b>  The Sermon on the Mount: Honoring God and Loving Enemies  The Sermon on the Mount: Worship and the Model Prayer  The Sermon on the Mount: Treasures and Judgments  The Sermon on the Mount: Prayer, Principles, and a Parable</p>	<p><b>704</b></p> <p><b>Jesus Teaches His Disciples</b></p> <p><b>Jesus Teaches in Parables</b>  Healing Servant and Son  Surprising Company  Heart Conditions  Precious Seed in Rich Soil</p> <p><b>Jesus Nurtures His Disciples</b>  Of Wheat, Mustard, and Leaven  What Kind of Man Is This?  Help for the Hopeless  Jesus Gives Authority to His Disciples</p> <p><b>Conflict Between Good and Evil</b>  As the Master, so the Follower  Take Up the Cross  I Will Give You Rest  John the Baptist's Death</p>	<p><b>705</b></p> <p><b>Is Jesus the Christ?</b></p> <p><b>Jesus' Last Days in Galilee</b>  You are the Christ!  Bread of Life  This Is My Son  To Jerusalem!</p> <p><b>Ministry in Judea</b>  Sent by the Father  If Any Man Thirsts  I Am the Light of the World  You Shall Know the Truth</p> <p><b>Conflict With the Pharisees</b>  Before Abraham Was, I Am Sabbath "Work"  Now I See!  The Good Shepherd</p>
<p><b>706</b></p> <p><b>Jesus Travels and Teaches</b></p> <p><b>Jesus Appoints Seventy</b>  Jesus Is God  The Mission of the Seventy  The Good Samaritan  Jesus Teaches on Prayer</p> <p><b>Jesus Opposes the Pharisees</b>  Tearing Down Façades  Beware of Hypocrisy!  Riches and Worry  Good Servants Versus Bad Servants</p> <p><b>Jesus Confronts the Pharisees</b>  The Unfruitful Tree  The Compassionate Christ  The Humble Exalted  The Cost of Discipleship</p>	<p><b>707</b></p> <p><b>Jesus Teaches and Heals</b></p> <p><b>Parables and Teaching</b>  The Parables of the Lost Sheep and Coin  The Parable of the Lost Son  The Parable of the Unjust Steward  Jesus Teaches About Marriage</p> <p><b>Two Men Named Lazarus</b>  The Rich Man and Lazarus  Lazarus is Dead!  Jesus Weeps  Kill Jesus!</p> <p><b>On the Way to Jerusalem</b>  A Grateful Samaritan  Persistence and Humility  Two Rich Men  Mary's Lavish Love</p>	<p><b>708</b></p> <p><b>The Last Week of Jesus' Life</b></p> <p><b>Triumph and Conflict</b>  Triumphal Entry!  Cleansing the Temple; Cursing a Fig Tree  A Parable of Rejection  Tricky Questions</p> <p><b>Signs of the Second Coming of Jesus</b>  "I Am Come as a Light"  Love  Wars and Rumors of Wars  Be Ready!</p> <p><b>Jesus Urges Readiness</b>  Foolish or Wise?  Faithfully Serving  Sheep or Goat?  Betrayal!</p>	<p><b>709</b></p> <p><b>Jesus' Last Evening</b></p> <p><b>An Eventful Evening</b>  The Last Supper  A Servant's Task  Amazing Promises  Amazing Peace</p> <p><b>What a Friend!</b>  Connected to the Vine  Comforter  Overcomer  Intercessor</p> <p><b>Jesus Alone</b>  A Sacred Battle  A Traitor's Kiss  An Unjust Trial  A Friend's Denial</p>	<p><b>710</b></p> <p><b>Sacrifice and Victory</b></p> <p><b>Injustice at the Hands of the Authorities</b>  Silent Before Pilate  Silent Before Herod  Mocked and Whipped  Crucified</p> <p><b>Work of Redemption Completed</b>  It Is Finished  He Is Risen!  Mary's Special Blessing  Christ in the Scriptures</p> <p><b>Jesus Appears to His Followers</b>  Doubt Banished  Restoring Peter  The Ascension  Raised to New Life!</p>

<p><b>801</b></p> <p><b>Jesus Finds His Church</b></p> <p><b>The Holy Spirit Is Poured Out – Acts</b></p> <p>Ye Shall Be Witnesses The Holy Spirit Comes The First Gospel Message The Lame Man Walks</p> <p><b>The Church Grows – Acts</b></p> <p>Peter Preaches Jesus No Other Name Fresh Power Compassion or Deceit?</p> <p><b>Challenges for the Church – Acts</b></p> <p>God Uses Miracles Obeying God Rather Than Men Choosing Deacons Stephen Stoned</p>	<p><b>802</b></p> <p><b>The Gospel Spreads</b></p> <p><b>God Uses Men – Acts</b></p> <p>The Gospel Spreads God Prepares Two Men Saul's Conversion Two Courageous Men</p> <p><b>The Gospel Is for the Gentiles Too – Acts</b></p> <p>Aeneas and Tabitha Peter's Vision Gentiles Receive the Spirit Barnabas Teams Up with Saul</p> <p><b>Into All the World – Acts</b></p> <p>God Delivers Peter Sent Forth The Choice Paul Stoned</p>	<p><b>803</b></p> <p><b>Christianity and Culture</b></p> <p><b>A Maturing Church – Acts</b></p> <p>More Bible Atlas Skills The Jerusalem Conference Second Missionary Journey Open Hearts at Philippi</p> <p><b>Victory in Face of Opposition – Acts</b></p> <p>Thessalonica and Berea Paul at Athens Conversions at Corinth A More Perfect Understanding</p> <p><b>The Birth of the Ephesian Church – Acts</b></p> <p>Clash With Evil Uproar at Ephesus All-Night Sermon Good-bye!</p>	<p><b>804</b></p> <p><b>Paul Finishes His Race</b></p> <p><b>The Jews Try to Kill Paul – Acts</b></p> <p>Arrested In Roman Hands Murder Plot Foiled On Trial at Caesarea</p> <p><b>The Journey to Rome – Acts</b></p> <p>Appeal to Caesar Almost Persuaded Danger at Sea Shipwreck</p> <p><b>The End of Paul's Journey – Acts</b></p> <p>Paul in Rome Peoples of the New Testament Something New: the Church New Testament Travel</p>	<p><b>805</b></p> <p><b>Paul Writes to Christians</b></p> <p><b>All Have Sinned – Romans</b></p> <p>Paul's Burden for Rome Sin Invades Justified by Faith Servants of Righteousness</p> <p><b>A New Life – Romans, 1 Corinthians</b></p> <p>No Condemnation Transformed! The Christian and Civil Authority God's Wisdom Is Superior</p> <p><b>Doing Things God's Way – 1 Corinthians</b></p> <p>Laboring Together With God Teachings for Orderly Church Life The Body of Christ Love</p>
<p><b>806</b></p> <p><b>A Way of Life</b></p> <p><b>Saved to Serve – 2 Corinthians</b></p> <p>A New Heart for Service Working Together With God Joyful Giving Serving and Suffering</p> <p><b>Salvation by Jesus Christ Only – Galatians</b></p> <p>Keeping the Gospel Pure Living by Faith The Flesh Versus the Spirit Sowing and Reaping</p> <p><b>Jesus is Supreme – Philippians</b></p> <p>Jesus is All Jesus' Perfect Example The Perfect Goal Think on These Things</p>	<p><b>807</b></p> <p><b>Life in Jesus</b></p> <p><b>The Church: the Body of Christ – Ephesians</b></p> <p>Jesus' Great Power The Habitation of God The Body Works Living the Christian Life</p> <p><b>Complete in Christ – Ephesians, Colossians</b></p> <p>Jesus is Preeminent Complete in Christ Risen With Christ Christ-like Relationships</p> <p><b>Jesus is Supreme – 1 and 2 Thessalonians</b></p> <p>Caring for the Brotherhood Wholly Sanctified Evil Will Lose Helping the Disobedient</p>	<p><b>808</b></p> <p><b>Leaders for the Church</b></p> <p><b>Good Relationships – 1 Timothy</b></p> <p>Encouraged to Faithfulness The Importance of Prayer and Study Mutual Respect Among Christians A Contented Life</p> <p><b>Sound Teaching – 2 Timothy</b></p> <p>Take Courage Be Strong Victory in Dangerous Times Finishing Life in Victory</p> <p><b>Everyday Christianity – Titus, Philemon</b></p> <p>Qualities of an Elder Sound Doctrine Maintaining Good Works Restoring Relationships</p>	<p><b>809</b></p> <p><b>A Better Covenant</b></p> <p><b>Jesus, Our Perfect Redeemer – Hebrews</b></p> <p>Jesus is Superior The Humanity of Christ Jesus, Our High Priest Better Things</p> <p><b>Faith Obeys – Hebrews, James</b></p> <p>Heroes of Faith Our Captain A Doer of God's Word Faith Works</p> <p><b>One With Christ in Service – James, 1 Peter</b></p> <p>An Unruly Member Trust in God Chosen of God One With Christ in Suffering</p>	<p><b>810</b></p> <p><b>The Love of God</b></p> <p><b>Walking With Jesus – 2 Peter, 1 John</b></p> <p>Growing in Christ The Day of the Lord Walking in the Light Light and Love</p> <p><b>Life in the Son – 1 and 2 John, Jude</b></p> <p>Sons of God God Is Love Practical Encouragement and Warning Jesus, the Ever-Living One</p> <p><b>Final Victory – Revelation</b></p> <p>Jesus Speaks to the Church Worship in Heaven Evil Is Defeated United With Jesus Forever</p>

# SUNRISE BIBLE 900 – Christ in the Old Testament

<p><b>901</b></p> <p><b>In the Beginning</b></p> <p><b>Jesus, the Eternal Word</b>  Jesus  How We Got the Scriptures  The Relationship Between the Old and New Testaments  Overview of the Old Testament</p> <p><b>Beginnings</b>  Creation  Man  The Fall  The Promise</p> <p><b>From Abel to Job</b>  Man's Increasing Wickedness  The Flood to Babel  God and Satan Test Job's Faithfulness  Job and His Friends Learn the Truth</p>	<p><b>902</b></p> <p><b>Abraham to Joseph</b></p> <p><b>Abraham, Friend of God</b>  God Calls Abram  The Promise Through Abraham's Seed  Melchizedek  Lot and Sodom</p> <p><b>Abraham's Sons</b>  Sarai's Solution  Isaac, Son of Promise  The Promise, on the Altar  Jacob Is God's Chosen</p> <p><b>Jacob and His Sons</b>  Jacob and the Blessing of Abraham  Joseph, Preserver of the Promised Seed  Tribe of the Promised Redeemer-King  God Preserves the Redeemer's Line</p>	<p><b>903</b></p> <p><b>From Egypt to the Promised Land</b></p> <p><b>Moses Leads the People</b>  God Calls Moses  Passover: Mercy at Midnight  The Red Sea  God Provides in the Wilderness</p> <p><b>Mount Sinai and the Law</b>  Israel Prepares to Meet God  God's Law, Written  Christ Foreshadowed in the Law  Children of Abraham</p> <p><b>God Dwells With His People</b>  The Tabernacle, God's Special Dwelling Place  Christ Foreshadowed in the Tabernacle  Christ Forshadowed in the Sacrifices  The People of God</p>	<p><b>904</b></p> <p><b>Leviticus and Numbers</b></p> <p><b>A Holy People</b>  The Law in Israel's Life and Culture  The Priests Stand Between God and Israel  Israel Connects With God Through Offerings  Israel Blesses God Through Offerings</p> <p><b>Serving God</b>  Holy Living for a Holy People  The LORD's Spring Feasts for Israel  More Feasts  The Atonement—A Clean Start</p> <p><b>Disobedience and Obedience</b>  Jubilee: Faith and Freedom  Spies and Rebellion  God Deals With Defiance  The Brass Serpent</p>	<p><b>905</b></p> <p><b>Moses Through Saul</b></p> <p><b>God Shows His Heart</b>  God Is a God of Order  Moses and Joshua  That Prophet  A Heart for God</p> <p><b>Delivered to a Land of Milk and Honey</b>  Restored to Canaan  Rahab: Faith in an Unexpected Place  Judges, God's Instruments for Deliverance  Ruth: Ancestor of the Redeemer</p> <p><b>Israel Becomes a Kingdom</b>  Samuel: Prophet and Judge  The Ark of God  King Saul: A Heart That Closed  David: A Man After God's Own Heart</p>
<p><b>906</b></p> <p><b>King David and the Psalms</b></p> <p><b>David the King</b>  God's Man Becomes King  The Enduring Throne of David  David's Response to His Sins  Three Kings, Two Hearts</p> <p><b>David the Poet</b>  David's Love for God's Word  Thirsting and Panting  Prophecies About Christ in the Psalms  Prophecies in Psalm 132: the Davidic Covenant</p> <p><b>Prophecies in the Psalms</b>  The Messiah's Betrayal  The Messiah's Suffering and Crucifixion  The Messiah's Triumph  The Messiah's Kingship</p>	<p><b>907</b></p> <p><b>Solomon's Reign and Writings</b></p> <p><b>Solomon and the Temple</b>  David's Son  Solomon Succeeds David  Solomon Builds the Temple  Solomon Dedicates the Temple</p> <p><b>The Proverbs of Solomon</b>  Solomon Makes Choices  Wisdom Personified  Proverbs: The Fear of the LORD  Wisdom: Practical Righteousness</p> <p><b>Solomon's Other Writings</b>  Ecclesiastes: Life Under the Sun  Ecclesiastes: Life Beyond the Sun  Ecclesiastes: Life Winding Down  Song of Solomon</p>	<p><b>908</b></p> <p><b>Division and Hope</b></p> <p><b>The Divided Kingdom</b>  Division, Fruit of Apostasy  Israel: Evil Kings and Faithful Prophets  Judah: The Struggle Against Idolatry  The Royal Lineage Preserved</p> <p><b>Isaiah: Jesus' Life and Ministry</b>  Isaiah Prophesies the King's Birth  Isaiah Describes the Servant and His Ministry  Isaiah Reveals the Spirit-filled Saviour  Isaiah Presents the Promised One as an Obstacle</p> <p><b>Isaiah: Jesus' Suffering, Death, and Return</b>  The Messiah Suffers at the Hands of His People  The Messiah Dies and Lives Again  The Holy One Executes Judgment  The King Reigns Forever</p>	<p><b>909</b></p> <p><b>Judah After Israel's Captivity</b></p> <p><b>Kings and Prophets</b>  Courageous Prophets Take a Righteous Stand  The Last Kings of Judah  Joel and Micah  Habakkuk and Zephaniah</p> <p><b>Judgment and Restoration; Jeremiah</b>  The Chosen People Lose the Kingdom  Jeremiah, the Weeping Prophet  Jeremiah Prophesies of Judgment  Jeremiah Prophesies of Restoration</p> <p><b>Judgment and Restoration; Ezekiel</b>  Ezekiel, the Watchman  Ezekiel Sees Bones and Sticks  Ezekiel Sees Glory and Water  Daniel, a Man of Influence</p>	<p><b>910</b></p> <p><b>God's People Return and Prepare for the King</b></p> <p><b>Daniel</b>  Daniel's Character and Priorities  Daniel Prays  Four World Powers  The Eternal Kingdom</p> <p><b>The Return; God Preserves His People</b>  God's People Return  God Thwarts Genocide  The Samaritans  Ezra and Nehemiah Lead Israel's Revival</p> <p><b>Preparation for the King</b>  The Temple Is Restored  Remember the Law  God Prepares the World for the King  The Knowledge of the Holy</p>

<p><b>901</b></p> <p><b>Introduction to the New Testament</b></p> <p><b>Background Information</b>  Various Empires and Periods  Religious Literature  Religious Parties</p> <p><b>New Testament Books</b>  Historical Books  Instructive Books  Prophetical Book</p> <p><b>Chronological Sequence</b>  Events in the Gospels  Events in the Early Church  Events in Revelation</p>	<p><b>902</b></p> <p><b>The Gospels</b></p> <p><b>The Gospel According to Matthew</b>  Writer of the Gospel  Occasion of the Writing  Analysis of the Book</p> <p><b>The Gospel According to Mark</b>  Writer of the Gospel  Occasion of the Writing  Analysis of the Book</p> <p><b>The Gospel According to Luke</b>  Writer of the Gospel  Occasion of the Writing  Analysis of the Book</p> <p><b>The Gospel According to John</b>  Writer of the Book  Occasion of the Writing  Analysis of the Book</p>	<p><b>903</b></p> <p><b>The Acts of the Apostles</b></p> <p><b>Writer</b>  Background  Viewpoint  Style</p> <p><b>Purpose</b>  Particular Purpose  Historical Purpose  Comprehensive Purpose</p> <p><b>Content</b>  Pentecost  Home Missions  Foreign Missions</p>	<p><b>904</b></p> <p><b>The Pauline Epistles</b></p> <p><b>Personal Profile</b>  The Man  The Apostle  The Writer</p> <p><b>Early Epistles</b>  First and Second Thessalonians  First and Second Corinthians  Romans  Galatians</p> <p><b>Prison Epistles</b>  Ephesians  Philippians  Colossians  Philemon</p> <p><b>Later Epistles</b>  First Timothy  Titus  Second Timothy</p>	<p><b>905</b></p> <p><b>The General Epistles</b></p> <p><b>James</b>  The Man  The Disciple  The Writer  The Message</p> <p><b>First and Second Peter</b>  The Man  The Apostle  The Writer  The Message</p> <p><b>First, Second, and Third John</b>  The Man  The Apostle  The Writer  The Message</p> <p><b>Hebrew and Jude</b>  Hebrews  Jude</p>
<p><b>906</b></p> <p><b>The Revelation of Jesus Christ</b></p> <p><b>The Glorious Christ and His People</b>  The Seven Churches  The Seven Seals</p> <p><b>The Victorious Christ and His Enemy</b>  The Seven Trumpets  The Seven Signs  The Seven Plagues</p> <p><b>The Triumphant Christ and His Bride</b>  The Seven Judgments  The Seven Wonders</p>	<p><b>907</b></p> <p><b>Biblical Literature: Job and Suffering</b></p> <p><b>The Book of Job</b>  Opening Scenes  Great Debate  Closing Scenes</p> <p><b>The Attitudes Toward Suffering</b>  The Term <i>Suffer</i>  The World's Attitude  The Christian's Attitude</p> <p><b>The Sufferings of Christ</b>  His Life and Ministry  His Death and Resurrection  His Intercession and Consolation</p>	<p><b>908</b></p> <p><b>How to Share Christ With My Friends</b></p> <p><b>Personal Evangelism</b>  Conducted on a Personal Basis  Directed by the Holy Spirit  Followed by Continued Ministry</p> <p><b>Outreach Meetings</b>  Bible-Oriented Outreach  Activity-Oriented Studies  Food-Oriented Outreach</p> <p><b>Travel Projects</b>  Personal or Family Projects  Church or Denominational Projects  Mission or Organization Projects</p>	<p><b>909</b></p> <p><b>God's Will for My Life</b></p> <p><b>How to Find God's Will for Your Life</b>  The Desire of the Heart  The Word of God  The Providence of God</p> <p><b>How to Develop and Keep Goals</b>  The Necessity for Goals  The Types of Goals  The Attainment of Goals</p> <p><b>How to Evaluate and Use Your Talents</b>  The Giver of Gifts  The Evaluation of Gifts  The Use of Gifts</p>	<p><b>910</b></p> <p><b>Review</b></p> <p><b>Background Information and New Testament Historical Books</b>  The Empires, Literature, and Parties  The Gospels  The Acts of the Apostles</p> <p><b>Instructive and Prophetical Books</b>  The Pauline Epistles  The General Epistles  The Revelation</p> <p><b>Suffering and Special Emphases</b>  The Sufferings of Job, Mankind, and Christ  Sharing Christ With My Friends  Knowing God  Knowing God's Will for My Life</p>

# BIBLE 1100 MAJOR THEMES I

<p><b>1101</b></p> <p><b>The Faithfulness of God</b></p> <p><b>Affirmation of God's Faithfulness</b> The Declaration of God as to His Own Faithfulness The Declaration of Man as to God's Faithfulness</p> <p><b>Nature of God's Faithfulness</b> Characteristics of God's Faithfulness The Contrasts of God's Faithfulness</p> <p><b>Manifestation of God's Faithfulness</b> The Providence of the Creator The Message of the Faithful Witness The Work of the Faithful High Priest</p> <p><b>Implications of God's Faithfulness</b> The Necessity of Faith The Responsibilities of Faithfulness</p>	<p><b>1102</b></p> <p><b>Romans: Part I</b></p> <p><b>Historical Background of the Roman Empire</b> The Roman Empire The Roman Church The Book of Romans</p> <p><b>Paul's Epistle to the Romans</b> Salutation State of Condemnation State of Justification</p> <p><b>The Way According to Romans</b> Sin Salvation</p>	<p><b>1103</b></p> <p><b>Romans: Part II</b></p> <p><b>Children of Choice</b> Election Unrighteousness Gentiles</p> <p><b>Principles in Practice</b> Service Submission Scruples</p> <p><b>Roman Victory</b> From Sin to Salvation From Salvation to Sanctification From Glory to Glory</p>	<p><b>1104</b></p> <p><b>The Doctrine of Jesus Christ</b></p> <p><b>The Person of Jesus Christ</b> Who Jesus Christ Is: His Identity How Jesus Christ Came: His Incarnation What Jesus Christ Is Like: His Individuality</p> <p><b>The Work of Jesus Christ</b> What Christ Did Before the Cross What Christ Did on the Cross What Christ Does After the Cross</p>	<p><b>1105</b></p> <p><b>The Nation of Israel</b></p> <p><b>The Abrahamic Covenant</b> God's Initiation God's Fulfillment</p> <p><b>The Significance of the Hebrew Nation</b> Historical Significance Theological Significance</p> <p><b>The Archaeological Discoveries</b> The Old Testament Discoveries The New Testament Discoveries</p>
<p><b>1106</b></p> <p><b>The History of the Canon</b></p> <p><b>The Doctrine of the Bible</b> Revelation Inspiration Authority Illumination Interpretation</p> <p><b>The Formation of the Bible</b> Preparation of the Revelation Formation of the Old Testament Formation of the New Testament</p> <p><b>The Recognition of the Scriptures</b> Canonicity of the Old Testament Canonicity of the New Testament</p>	<p><b>1107</b></p> <p><b>Friendship, Dating, and Marriage</b></p> <p><b>Friendship</b> The Meaning of Friendship The Necessity of Friendship The Possibility for Friendship The Responsibilities in Friendship</p> <p><b>Dating</b> The Distinctive Aspects of Dating The Meaning of Dating The Difficulties of Dating The Possibilities in Dating</p> <p><b>Marriage</b> The Origin of Marriage The Meaning of Marriage The Purpose of Marriage The Structure of Marriage</p>	<p><b>1108</b></p> <p><b>The Pursuit of Happiness</b></p> <p><b>Reversion</b> Solomon's Splendor Solomon's Sin</p> <p><b>Results</b> Solomon's Search God's Solution</p> <p><b>Recovery</b> God's Action Solomon's Response</p>	<p><b>1109</b></p> <p><b>Answers to Agnostic Questions</b></p> <p><b>Questions About the Integrity of the Bible</b> Attitudes Mistakes Contradictions Scientific Accuracy</p> <p><b>Questions About the Doctrines of the Bible</b> Christianity God Miracles Jesus Creation Evil Divine Science Unevangelized People Infant Deaths Heaven and Hell</p> <p><b>The Interpretation and Application of the Bible</b> Specific Biblical Texts Practice and Experience</p>	<p><b>1110</b></p> <p><b>Review</b></p> <p><b>The Uniqueness of the Bible</b> Means and Purpose of Revelation Formation and Canonicity of the Bible Findings of Archaeology</p> <p><b>The Book of Romans</b> Historical Backdrop to Romans Structure and Content of Romans</p> <p><b>The History of Israel</b> A Nation and a People Israel's Unbelief Israel's Influence and Significance</p> <p><b>The Revelation of God in the Bible</b> Revelation and Dimensions of God's Faithfulness Revelation of God's Righteousness The Person and Work of Jesus Christ</p> <p><b>Principles for Christian Living</b> Principles for Social Interaction Principles for Spiritual Maturity Principles for Defending the Faith</p>



## BIBLE 1200 MAJOR THEMES II

<p><b>1201</b></p> <p><b>Knowing Yourself</b></p> <p><b>Your Body</b> The Potential of the Body The Carnal Nature and the Body</p> <p><b>Your Spirit</b> Spiritual Regeneration Spiritual Food and Exercise</p> <p><b>Your Soul</b> Servanthood Personhood The Spirit-Controlled Man</p>	<p><b>1202</b></p> <p><b>Preparing for Service</b></p> <p><b>The First Commandment</b> Love for God First Love for God Expressed</p> <p><b>The Second Commandment</b> Thou Shalt Love Thy Neighbor As Thyself</p> <p><b>The Great Commission</b> The Commander The Commission Areas of Duty</p>	<p><b>1203</b></p> <p><b>Serving in the Church</b></p> <p><b>Christ, the Head</b> Directing Each Member Directing All Members</p> <p><b>The Church, Christ's Body</b> Collective Growth and Strength Collective Stability A Collective Habitation</p> <p><b>Relationships</b> Avoiding Relationship Problems Correcting Relationship Problems The Church and the World</p>	<p><b>1204</b></p> <p><b>Godhead</b></p> <p><b>Old Testament View of the Godhead</b> Revelation of the Living God Names of God in the Old Testament</p> <p><b>The New Testament View of the Godhead</b> The Trinity in the Gospels The Trinity in Paul's Epistles</p> <p><b>Historical Perspectives of the Godhead</b> Origin of Trinitarian Formulas Development of Christian Creeds</p> <p><b>Man's Relationship With the Godhead</b> Christian Faith in the Trinity Personal Faith in the Trinity</p>	<p><b>1205</b></p> <p><b>The Attributes of God: Holiness and Goodness</b></p> <p><b>The Holiness of God</b> His Holy Person His Holy Place His Holy People</p> <p><b>The Goodness of God</b> In His Character In His Creation In His Salvation</p>
<p><b>1206</b></p> <p><b>The Epistles of James and John</b></p> <p><b>James's Epistle</b> The Man The Authenticity The Occasion The Message</p> <p><b>John's Epistles</b> The Man The Authenticity The Occasion The Message: First John The Message: Second John The Message: Third John</p>	<p><b>1207</b></p> <p><b>Biblical Literature: Daniel</b></p> <p><b>Daniel's Influence for God</b> Man of Conviction Interpreter of Dreams Watchman of Prayer</p> <p><b>Daniel's Vision From God</b> The Four Beasts The Ram and the He-Goat The Seventy Sevens The Mighty Kings</p>	<p><b>1208</b></p> <p><b>Comparative Religions</b></p> <p><b>Systems of Worship</b> The Elements of Basic Christianity The Validity of the Christian Faith The Nomenclatures Used in Christianity</p> <p><b>World Religions</b> Buddhism Confucianism Hinduism Islam</p> <p><b>The Occult</b> Spiritualism Psychic Phenomena Astrology</p>	<p><b>1209</b></p> <p><b>Wisdom for Today's Youth</b></p> <p><b>David and Solomon</b> The Life of David The Character of David The Life of Solomon The Riches of Solomon</p> <p><b>Psalms and Proverbs</b> God's Cleansing God's Comfort God's Presence God's Sovereignty God's Guidance</p> <p><b>The Bible and Literature</b> Literary Styles of the Bible Prefigurations of the Bible Problem Solving in the Bible</p>	<p><b>1210</b></p> <p><b>Practical Christian Living for Young Adults</b></p> <p><b>Fundamentals of the Christian Faith</b> The Nature of God The Word of God The Way of Salvation The Defense of the Faith</p> <p><b>Growing Toward Christian Maturity</b> Self-Awareness Christlike Character and Conduct Spiritual Development</p> <p><b>Influencing the World for Christ</b> Lifework and Ministry Spoken Testimony</p>



# CURRICULUM OVERVIEW

## Sunrise Edition Language Arts

Language arts teaches your children the skills they need to discover God's Word and world. It teaches reading, spelling, handwriting, grammar, composition, listening, oral communication, research, and study skills.

In Levels 100-700, creative writing is included in the LightUnits and Teacher's Guide. For creative writing in Sunrise editions beyond Level 700, you need our creative writing teacher's handbook, *On Teaching Writing: A Handbook*.

Sunrise editions of language arts include our continuous review system, which means that your children learn concepts in small increments that are reviewed often. There's no better way to build and maintain a solid base of language skills.

Language Arts 100 is designed to be used with Christian Light's Learning to Read program, but correlates well with any good phonics-based learning to read program.

LEVEL	LANGUAGE ARTS
Sunrise 2nd Edition 100	<ul style="list-style-type: none"> <li>• Grammar</li> <li>• Word Study</li> <li>• Composition</li> <li>• Vocabulary</li> <li>• Study Skills</li> <li>• Spelling</li> <li>• Penmanship</li> </ul>
Sunrise 2nd Edition 200	
Sunrise 2nd Edition 300	
Sunrise 2nd Edition 400	
Sunrise 2nd Edition 500	
Sunrise 2nd Edition 600	
Sunrise 2nd Edition 700	
Sunrise 800	
Sunrise 900	English I
Sunrise 1000	Literature I
Sunrise 1100	English II
Sunrise 1200	Literature II

# SUNRISE 2ND EDITION LANGUAGE ARTS 700

<p><b>701</b></p> <p>Nouns; Capitalization Adjectives Verbs; Verb Tense Adverbs Sentence Structure; Sentence types; Diagramming Sentences Prepositions; Preposition or Adverb? Conjunctions; Compounds Direct Objects Indirect Objects Linking Verbs, Predicate Nominatives, and Predicate Adjectives Personal Pronouns; Nominative Case Pronouns Creative Writing: A Descriptive Paragraph Creative Writing: Introduction to Journaling</p>	<p><b>702</b></p> <p>Apostrophes in Possessive Words Participles Verbs That Can Be Action or Linking Adverbs Modify Adjectives and Adverbs Troublesome Expressions <i>Lie/Lay</i>, <i>Bring/Take</i>, <i>Farther/Further</i> Compound Sentences Possessive Case Pronouns Apostrophes in Plurals and Contractions Subject-Verb Agreement Interjections; The Eight Parts of Speech The Principal Parts of Verbs Creative Writing: Narrative With Dialogue Creative Writing: Polish your Dialogue</p>	<p><b>703</b></p> <p>What Is a News Article? Appositives Adverb Phrases Singular Indefinite Pronouns Conducting an Interview Objective Case Pronouns Indirect Objects or Objects of Prepositions Compound Subjects and Verbs Comma Rules Adjective Phrases Forms of Comparison Creative Writing: Writing the News Article Creative Writing: Revising and Rewriting your News Article</p>	<p><b>704</b></p> <p>Writing Historical Fiction, Part 1 Adverb Phrases That Modify Adjectives Collective Nouns Appositive Adjectives Writing Historical Fiction, Part 2 Phrase or Clause? Participial Phrases Participial Phrases With Complements Demonstrative and Interrogative Pronouns Troublesome Adjectives and Adverbs; Double Negatives Independent and Dependent Clauses Creative Writing: Writing Historical Fiction Creative Writing: Revising and Rewriting Your Story</p>	<p><b>705</b></p> <p>Gerunds; Diagramming Gerunds Using Colons Properly Punctuating Dialogue Complex Sentences Indirect Quotations; Writing a Devotional Essential and Nonessential Phrases Compound Prepositions; Troublesome Prepositions Singular Nouns With Plural Forms Plural Indefinite Pronouns; More Subject-Verb Agreement Relative Pronouns; Subordinating Conjunctions Use Specific Words Creative Writing: Writing a Devotional Creative Writing: Editing Your Devotional</p>
<p><b>706</b></p> <p>Introduction to Parallel Stories Introducing Outlines Adjective Clauses; Diagramming Adjective Clauses Semicolons From Notes to Outline Using Nominative and Objective Pronouns Correctly; Using <i>Who</i> and <i>Whom</i> Making an Outline Indefinite Pronouns That Can Be Singular or Plural Misplaced Modifiers Adverb Clauses Troublesome Prepositions Creative Writing: Writing a Parallel Story Creative Writing: Editing a Parallel Story</p>	<p><b>707</b></p> <p>What Is a Research Paper? What Is a Good Source? Choosing a Research Topic Writing a Purpose Statement; Making Your Preliminary Outline Plagiarism; Recording Notes Taking Notes More Note-Taking Writing a Complete Outline Formatting Quotations; Crediting Quotations Writing an Introduction Writing the First Draft Writing a Conclusion Revising and Editing Writing a Cover Page; Writing an Outline Page Writing the Final Copy Writing a Bibliography Page</p>	<p><b>708</b></p> <p>The Persuasive Essay Diagramming Adverb Clauses Active and Passive Voice in Verbs Punctuating a Quotation Within a Quotation Brainstorming for a Persuasive Essay Vivid Verbs Creating Dependent Clauses Unnecessary Prepositions Identifying Adjective or Adverb Clauses Choosing a Clause to Subordinate Introduction to Infinitives Creative Writing: Writing a Persuasive Essay Creative Writing: Revising and Editing a Persuasive Essay</p>	<p><b>709</b></p> <p>The Power of Poetry Meter, Part 1; Anapestic Meter Rhyme Meter, Part 2; Tetrameter, Pentameter Assonance and Consonance Theme Paradox, Hyperbole, Pun Narrative Poetry: the Ballad Structures in Bible Poetry Gerund Phrases; Diagramming Gerund Phrases Troublesome Verbs Creative Writing: Writing a Poem Creative Writing: Editing Your Poem</p>	<p><b>710</b></p> <p>Reflective Writing Modifiers and Complements in Clauses Verbals Perfect Tenses Prewriting for a Reflective Essay Appositives and Appositive Phrases Point of View in Stories Creating Figures of Speech Consistency in Verb Tense Increase Your Vocabulary Idioms Creative Writing: Writing a Reflective Essay Creative Writing: Revising and Editing a Reflective Essay</p>

# SUNRISE LANGUAGE ARTS 800

<p><b>801</b></p> <p>Verbs: action, being, and helping Nouns: common, compound, and collective Concrete and abstract nouns Adjectives, appositive adjectives, and proper adjectives Adverbs and diagramming them Linking verbs Predicate nominatives and predicate adjectives Direct objects and diagramming them Indirect objects and diagramming them Prepositions Preposition or adverb? Adjective phrases and diagramming them Adverb phrases and diagramming them Pronouns Personal pronouns; three cases, three persons; singular and plural Sentences, fragments, and run-ons Diagramming imperative and interrogative sentences More pronouns: interrogative, demonstrative, and compound To abbreviate or not to abbreviate</p>	<p><b>802</b></p> <p>Writing times, dates, and numbers Participles and participial phrases Diagramming participles and participial phrases Subject-verb agreement Gerunds and gerund phrases Diagramming gerunds and gerund phrases Coordinating and correlative conjunctions Independent and dependent clauses Relative pronouns and dependent clauses Adjective clauses and diagramming them Subordinating conjunctions Adverb clauses and diagramming them Infinitives and diagramming them Using semicolons Capitalization review Using colons</p>	<p><b>803</b></p> <p>Diagramming adverbs Problem adjectives and adverbs Direct quotations Appositives and appositive phrases Commas with appositive phrases Using appositives to combine sentences Writing ordinal numbers Indirect quotations Active and passive voice Understood relative pronouns Singular indefinite pronouns Singular indefinite pronouns and verb agreement Transitive and intransitive verbs Figures of speech: simile, metaphor, personification, hyperbole Quotation marks with other punctuation Nouns of direct address Subject-verb agreement with words ending in <i>-ics</i></p>	<p><b>804</b></p> <p>Infinitive phrases Diagramming infinitive phrases Pronoun-antecedent agreement Using commas for nonessential phrases Subject-verb agreement with compound subjects Single quotation marks Principal parts of verbs Irregular verbs The basic tenses: present, past, future The perfect tenses: present, past, future Nouns, pronouns, or adjectives Simple and compound sentences Using hyphens</p>	<p><b>805</b></p> <p>Subject-verb agreement with indefinite pronouns Noun clauses Diagramming noun clauses Complex sentences Preparing and planning for a speech Writing the speech introduction Outlining the speech Writing the conclusion Preparing for and giving the speech Apostrophes in compound nouns and compound subjects Adverbial nouns and noun phrases Diagramming adverbial nouns and noun phrases Identifying verbal phrases</p>
<p><b>806</b></p> <p>Dependent and independent clauses Compound-complex sentences Diagramming compound-complex sentences Underlining and quotation marks in titles Present perfect, past perfect, and future perfect Pronoun-antecedent agreement in number Noun clauses Diagramming noun clauses Pronoun-antecedent agreement in gender Making compound nouns plural What's in the library? Using the library</p>	<p><b>807</b></p> <p>What is a research paper? Choosing a subject Looking for sources Writing a purpose statement Making your preliminary outline Plagiarism How to take notes Taking notes Taking more notes Do I have enough information? Writing the complete outline Formatting and crediting quotations Getting started and beginning the rough draft Continue writing A good conclusion Revising and editing The final copy Finishing the research paper The bibliography A sample research paper</p>	<p><b>808</b></p> <p><i>Who, Whom, Whoever, Whomever</i> Using the dash Infinitives used as adjectives Avoid using unnecessary prepositions Diagramming infinitives used as adjectives Elliptical clauses Pronouns in elliptical clauses Adverb clauses that modify adjectives and adverbs Diagramming adverb clauses that modify adjectives and adverbs Using parentheses Using pronouns correctly Using commas in sentences Using vivid verbs</p>	<p><b>809</b></p> <p>Infinitive review Infinitives as adverbs Diagramming adverb infinitive phrases Redundancies—extra or unnecessary words Capitalization review Simple, compound, and complex sentences Gerunds and gerund phrase review Verb review Adjective review Quotation mark review Indefinite pronoun review Participial phrase review</p>	<p><b>810</b></p> <p>Active and passive voice review Infinitive phrases as adverbs Noun complement review Transitive and intransitive verb review Noun clause review Compound-complex sentence review Conjunction review Pronoun agreement review—number and gender Capitalization review Writing interesting sentences Writing sentences</p>

<p><b>LightUnit 1</b></p> <p>nouns: common, proper, concrete, abstract, collective, count, non-count</p> <p>punctuation review</p> <p>using who and whom correctly</p> <p>adjective review</p> <p>participles &amp; participial phrases</p> <p>Coordinating and correlative conjunctions</p> <p>Pronouns: interrogative, demonstrative, compound, indefinite</p> <p>Adjective phrases</p> <p>Appositive and appositive phrases</p> <p>Using commas and semicolons correctly</p> <p>Adjective clauses</p> <p>Relative pronouns and understood relative pronouns; identifying function within clause</p> <p>Relative pronouns: using who, whom, which, &amp; that correctly.</p> <p>Relative adverbs</p> <p>Personal pronouns: case and person; using correctly</p> <p>Correcting dangling and misplaced modifiers</p> <p>Gearing writing for a specific audience</p> <p>Gearing writing to fit a specific purpose</p>	<p><b>LightUnit 2</b></p> <p>Verbs: action, being, linking</p> <p>Verb phrase</p> <p>Apostrophes in possessives</p> <p>Fragment, run-on sentence</p> <p>Transitive and intransitive verbs, identifying receiver of transitive</p> <p>Verb complements: direct and indirect object, predicate nominative and predicate adjective</p> <p>Adverbs: adverbial nouns &amp; noun phrases</p> <p>Adverb phrases</p> <p>Active and passive voice verbs</p> <p>Infinitives &amp; infinitive phrases functioning as adverbs</p> <p>Adverb clauses and subordinating conjunctions</p> <p>Principal parts of regular and irregular verbs</p> <p>Verb tense: past, present, future</p> <p>Writing concisely</p> <p>Writing with consistent verb tense &amp; pronoun form</p> <p>Knowing when passive voice is acceptable</p> <p>Editing—for wordiness &amp; redundancy —for consistency —for passive voice</p>	<p><b>LightUnit 3</b></p> <p>Verb tense: present perfect, past perfect, future perfect</p> <p>Interjections</p> <p>Progressive verb tenses</p> <p>Quotation marks in dialogue</p> <p>Punctuating titles correctly</p> <p>Comparative and superlative forms of adverbs and adjectives</p> <p>Objective complement</p> <p>Topic sentence of a paragraph, identifying and writing</p> <p>Using smooth transitions in writing</p> <p>Varying sentence types in writing</p> <p>Developing paragraphs with examples, description, reasons, narrative</p> <p>Organizing a paragraph in chronological order, spatial order, order of importance, comparison/contrast</p> <p>Writing a personal narrative</p> <p>Writing a character sketch</p>	<p><b>LightUnit 4</b></p> <p>Term verbal</p> <p>Gerunds and gerund phrases</p> <p>Verb mood: indicative, imperative, subjunctive</p> <p>Elliptical adverb clauses</p> <p>Pronoun case in elliptical clauses</p> <p>Using commas with nonessential sentence elements</p> <p>Single quotation marks</p> <p>Infinitive and infinitive phrases</p> <p>Subjects of infinitive phrases</p> <p>Using the dash correctly</p> <p>Pronoun case when used as appositive</p> <p>Collective nouns as singular or plural</p> <p>Verbal phrase review</p> <p>Planning, organizing, and writing an essay answer</p>	<p><b>LightUnit 5</b></p> <p>Public speaking</p> <p>Considering audience, purpose, and time limits of a speech assignment</p> <p>Selecting a subject</p> <p>Writing purpose statement</p> <p>Selecting method of organization: chronological, comparison/contrast, problem and solution, topical, spatial</p> <p>Using note cards; note-taking skills</p> <p>Researching and documenting sources</p> <p>Outlining</p> <p>Methods of introducing and concluding a speech; writing introduction and conclusion</p> <p>Good posture, gestures, and eye contact</p> <p>Expression, pitch, volume, articulation, speaking rate</p> <p>Preparing and using visual aids</p> <p>Evaluating a famous speech</p> <p>Listening skills</p> <p>Giving two speeches: a personal introduction and an expository speech</p>
<p><b>LightUnit 6</b></p> <p>Adjective clauses</p> <p>Relative pronouns and understood relative pronouns: identifying function within clause</p> <p>Relative adverbs and understood relative adverbs: identifying function within clause</p> <p>Adverb clauses and subordinating conjunctions</p> <p>Elliptical adverb clauses; using pronouns correctly in</p> <p>Noun clauses</p> <p>Dash, ellipsis, hyphen</p> <p>Verb review; review of three verb moods</p> <p>Objective complement review</p> <p>Review of semicolon use</p> <p>Using subordinate clauses to improve writing style</p> <p>Using parallel structure in writing</p>	<p><b>LightUnit 7</b></p> <p>Demonstrative &amp; interrogative pronouns</p> <p>Personal pronouns: person, number, gender, case</p> <p>Using personal pronouns correctly; antecedents</p> <p>Indefinite pronouns: identifying, using singular &amp; plural verbs correctly with</p> <p>Relative pronouns: identifying, using who, whom, which, &amp; that correctly</p> <p>Compound pronouns: reflexive &amp; intensive</p> <p>Reciprocal pronouns</p> <p>Pronoun courtesy order</p> <p>Pronoun-antecedent agreement</p> <p>Clear pronoun reference</p> <p>Taking notes from a written source</p> <p>Taking notes from a speaker</p> <p>Condensing long &amp; stringy sentences for conciseness &amp; variety</p>	<p><b>LightUnit 8</b></p> <p>Clause review</p> <p>Simple, compound, complex, &amp; compound-complex sentences</p> <p>Conjunctive adverbs</p> <p>Using conjunctive adverbs as transitions for smoother writing style</p> <p>Coordinating, correlative, &amp; subordinating conjunctions</p> <p>Compound parts of sentences &amp; compound sentences: differentiating, diagramming</p> <p>Commas</p> <p>Subject-verb agreement</p> <p>Complete sentences: review fragment, run-on, and stringy</p> <p>Using brackets</p> <p>Apostrophes</p> <p>Adverbial noun review</p> <p>Review: punctuating titles</p> <p>Verbals &amp; verbal phrase review</p>	<p><b>LightUnit 9</b></p> <p>Writing a research paper</p> <p>Planning, brainstorming</p> <p>Choosing a topic</p> <p>Gathering sources</p> <p>Thesis statement</p> <p>Taking notes, avoiding plagiarism</p> <p>Citations, crediting quotations</p> <p>Primary and secondary sources in research</p> <p>Using references for research</p> <p>Organizing and outlining</p> <p>Writing, editing, revising</p> <p>Title</p> <p>Acknowledging sources: quotes, citations</p> <p>Bibliography</p>	<p><b>LightUnit 10</b></p> <p>Writing &amp; giving a persuasive speech</p> <p>Thinking clearly, avoiding logical fallacies</p> <p>Choosing a topic; considering audience</p> <p>Proposition</p> <p>Logical and emotional arguments</p> <p>Finding sources, research</p> <p>Organizing for most powerful persuasive effect</p> <p>Refuting opposition</p> <p>Establishing credibility</p> <p>Avoiding biased and prejudiced language</p> <p>Introduction and conclusion</p> <p>Writing, revising, editing</p> <p>Acknowledging sources: quotes, citations</p> <p>Visual aids</p> <p>Proper vocal expressions, pitch, tone, volume, articulation</p> <p>Proper gestures, facial expression, eye contact, posture, and movement</p> <p>Delivering persuasive essay as manuscript speech</p>

## SUNRISE ENGLISH II

<p><b>LightUnit 1</b> <b>Usage and Literature</b></p> <p><b>English Usage</b> Biblical guidelines for usage Levels of English usage: formal, informal, and nonstandard usage Usage and Christian objectives English usage review</p> <p><b>Diction</b> Denotation and connotation Proper and improper use of emotion words Freshness versus triteness Reviewing diction</p> <p><b>Overview of American Literature</b> Colonial literature: Captain John Smith, Puritan writers Founding literature: Benjamin Franklin, Thomas Paine, Thomas Jefferson, Christopher Saur, The Martyrs Mirror The nineteenth century: pre-war writers, transcendental writers, writers during and after the Civil War The twentieth century</p>	<p><b>LightUnit 2</b> <b>Clarity in Writing</b></p> <p><b>Writing With Clarity</b> Specific nouns Strong verbs Simplicity</p> <p><b>Writing Sentences</b> Sentence logic—clarity Sentence logic—consistency and simplicity Sentence balance Essays in American literature Benjamin Franklin: “The Ephemera,” “The Whistle” Henry David Thoreau: “Brute Neighbors” Mark Twain: “Taming the Bicycle” Roderick L. Haig-Brown: “Close Call” E. B. White: “Will Strunk” Writing an essay</p>	<p><b>LightUnit 3</b> <b>Organization in Writing</b></p> <p><b>Writing Paragraphs</b> The topic sentence Paragraph organization: chronological, spatial, comparison/contrast, deductive and inductive order</p> <p><b>Writing an Article</b> The outline The introduction The body; writing an article The conclusion</p> <p><b>Periodicals and articles in American Literature</b> Periodicals George Weller: “Emergency at Sea” Tim Cahill: “Into the Eye of a Hurricane” Allen Guelzo: “John Bunyan’s Christian at Three Hundred”</p>	<p><b>LightUnit 4</b> <b>Writing Short Stories</b></p> <p><b>Techniques of Story Writing</b> Story element review Narration Pointers for narration: “German Potato Salad” Writing a narration</p> <p><b>More Techniques of Story Writing</b> Description: “Shadows!” Practicing description Dialogue Writing a short story</p> <p><b>Short Stories in American Literature</b> MacKinlay Kantor: “A Man Who Had No Eyes” Booker T. Washington: “A Slave Among Slaves” Nathaniel Hawthorne: “The Great Carbuncle” P. B. Hughes: “Catherine and the Winter Wheat” O. Henry: “After Twenty Years”</p>	<p><b>LightUnit 5</b> <b>Writing Poetry</b></p> <p><b>Understanding Poetry</b> Meaning and cadence Design Free verse Writing Song Lyrics History of hymn writing The popular Gospel Hymns of faith Writing a song</p> <p><b>Poetry in American Literature</b> Early poets: Anne Bradstreet, Edward Taylor Poets of renown: Bryant, Whittier, Poe, Longfellow Poets of change: Walt Whitman, Emily Dickinson, Edwin Markham, Sara Teasdale Later poets: Robert Frost, John H. Wheelock, Countee Cullen, Conrad Aiken</p>
<p><b>LightUnit 6</b> <b>Research</b></p> <p><b>Library Skills</b> The librarian Library classification systems: Dewey Decimal and Library of Congress systems The card catalog The reference section</p> <p><b>The Research Paper</b> Choosing the subject and gathering information Writing the paper Documenting the sources Sample research paper Writing the final draft</p> <p><b>Overview of Canadian Literature</b> Early Canadian literature: before Confederation From Confederation to World War I Since World War I: Charles G. D. Roberts, E. J. Pratt</p>	<p><b>LightUnit 7</b> <b>Understanding Words</b></p> <p><b>Greek Prefixes and Roots</b> Greek prefixes Greek roots Commonly misspelled words</p> <p><b>Latin Prefixes and Roots</b> Latin prefixes Latin roots Commonly mispronounced words</p> <p><b>Reading From Canadian Literature</b> Margaret Saunders: <i>Beautiful Joe</i> Sinclair Ross: “A Field of Wheat” E. J. Pratt: “The Titanic” Hugh Hood: “After the Sirens” Peter Dyck: <i>Up From the Rubble</i></p>	<p><b>LightUnit 8</b> <b>Listening and Reading Skills</b></p> <p><b>Listening Skills</b> Fact and opinion Biblical truth Critical listening Taking notes Taking minutes</p> <p><b>Reading Skills</b> Four worldviews A Christian worldview Critical reading</p> <p><b>Christian Literature</b> Literature of the past Literature about the past Christian literature today: nonfiction and fiction Trends in Christian literature</p>	<p><b>LightUnit 9</b> <b>Communication Skills</b></p> <p><b>Public Speaking</b> Oral reading Reading orally How to prepare a speech Preparing a speech Leading a discussion Giving a speech</p> <p><b>Drama and Visual Entertainment</b> Introduction to drama History of drama Modern drama Biblical guidelines</p> <p><b>Allegory</b> Allegory and Christianity Albert Sims: <i>Palace Beautiful</i></p>	<p><b>LightUnit 10</b> <b>Reading and Thinking</b></p> <p><b>Thinking About the Novel</b> The novel Thinking about what to read</p> <p><b>Recognizing Fallacies of Logical Thinking</b> Fallacies Fallacies involving subjectivism Fallacies involving credibility Fallacies involving logical structure</p> <p><b>Literature That Challenges</b> The Apostle Paul: “Ministers of Reconciliation” Unknown writer: “2,500,000,000” John Stam: “Bearing Precious Seed” Betty Stam: “Spikenard Very Precious” Mrs. Howard Taylor: “The Martyrdom of John and Betty Stam” Unknown writer: “These All Died in Faith” Menno Simons: “Why We Preach” J. C. Ryle: “The Zealous Man” Amy Carmichael: “Make Me Thy Fuel,” “Drums in the Night” Writing to challenge</p>





CHRISTIAN LIGHT  
EDUCATION

# CURRICULUM OVERVIEW

## Sunrise Edition Reading / Literature

Christian Light's reading program builds on *Learning to Read*, adding reading reinforcement and comprehension strategies in each grade level. Readers filled with captivating stories help students develop critical reading skills and teach valuable character-building lessons.

LightUnits provide practice in reading mechanics, comprehension, and analysis. These activities not only drill students, but also give teachers an accurate picture of students' abilities and progress. Combined quiz and test scores measure mastery.

Teacher's Guides include answers, detailed notes and instructions for exercises, class discussion, silent and oral reading, and other activities. A wealth of teaching how-to and schoolroom wisdom helps even beginning teachers have successful reading classes.

Nine readers are available: *I Wonder* (second half of Grade 1); *Helping Hands* (first half of Grade 2); *Happy Hearts* (second half of Grade 2); *Doors to Discovery* (Grade 3); *Bridges Beyond* (Grade 4); *Open Windows* (Grade 5); *Calls to Courage* (Grade 6); *The Road Less Traveled* (Grade 7); *Where Roads Diverge* (Grade 8).

LEVEL	READING
<b>Sunrise 2nd Edition 100</b> <i>I Wonder</i>	Reviews skills learned in Learning to Read, introduces new phonics, comprehension, and analytical skills.
<b>Sunrise 2nd Edition 200</b> <i>Helping Hands Happy Hearts</i>	Reviews all reading skills, adds new skills, and expands comprehension and analysis skills.
<b>Sunrise 2nd Edition 300</b> <i>Doors to Discovery</i>	Each level reviews and builds on skills learned in earlier levels, leading the student into logical, coherent thinking and giving practice in study and reading skills.
<b>Sunrise 2nd Edition 400</b> <i>Bridges Beyond</i>	
<b>Sunrise 2nd Edition 500</b> <i>Open Windows</i>	
<b>Sunrise 2nd Edition 600</b> <i>Calls to Courage</i>	
<b>Sunrise 2nd Edition 700</b> <i>The Road Less Traveled</i>	
<b>Sunrise 2nd Edition 800</b> <i>Where Roads Diverge</i>	

## SUNRISE 2ND EDITION READING 700 – *The Road Less Traveled*

701	702	703	704	705
Characters, setting, plot Simile, metaphor Roots <i>cord, fort</i> ; prefix <i>trans-</i> Etymology Essay Words and their effects Cause-and-effect relationship Main idea Theme Point of view Personification Poetry vs. prose Imagery Poetry: free verse Descriptive writing Internal and external conflict Context clues Analogies Mood Biography, autobiography Dialect Humor Understatement Sources to verify information Poetry: rhyme scheme Poetry: repetition Poetry: enjambment, end-stopped lines Symbol Legend Claims that cannot be verified Paraphrase Parable Alliteration Poetry: iambic and trochaic meter Poetry: couplets, tercets, triplets, quatrains	Epigram Onomatopoeia Facts and opinions in nonfiction Roots <i>cred, sol</i> ; prefix <i>super-</i> Expository writing Plot diagram Extended metaphor Poetry: anapestic meter Poetry: reading aloud Characteristics of credible sources News article Static and dynamic characters Poetry: parody Sequence as an organizational pattern Idiom Folktale Persuasive techniques in nonfiction Poetry: perfect and imperfect rhyme Poetry: guidelines for scanning meter	Roots <i>merg/mers, mort, plac</i> Narrative writing Denotation and connotation Author's purpose and word choices in fiction Types of conflict: man against himself, man, nature Poetry: refrain Broad and specific setting Oxymoron Resolution and theme in fiction Dialogue Assonance Poetry: internal rhyme Allusion Blurb Irony Paradox What a story says and means and why it matters Poetry: eye rhyme	Fable Roots <i>mon, sanct, vol</i> Hyperbole Persuasive writing Premises and conclusions in arguments Poetry: repeating and contrasting Hebrew parallels Persuasive letter of appeal Foreshadowing Tone Sound arguments Advertisements Third person limited point of view	Types of faulty reasoning: appeal to emotion, appeal to majority, attacking the man Roots <i>capt/cept, hor</i> ; prefix <i>para-</i> Primary and secondary sources Third person objective point of view Sarcasm Integral and backdrop setting Historical fiction Biblical historical fiction Anecdote Major and minor characters Third person omniscient point of view Realistic fiction



## SUNRISE 2ND EDITION READING 800 – *Where Roads Diverge*

801	802	803	804	805
<p>Literary techniques: alliteration, hyperbole, idiom, metaphor, onomatopoeia, personification, simile, understatement</p> <p>Etymology, root, affix</p> <p>Roots <i>fid</i>, <i>loc</i>, <i>pass</i></p> <p>Critical thinking: word analysis</p> <p>Denotation and connotation</p> <p>Foreshadowing</p> <p>Metaphoric language</p> <p>Components of plot</p> <p>Plot diagram</p> <p>Imagery</p> <p>Types of conflict: man against himself, man, nature</p> <p>Parable</p> <p>Paraphrase</p> <p>Fable, folktale, legend, myth</p> <p>Main idea</p> <p>Primary and secondary sources</p> <p>Allusion</p> <p>Biography</p> <p>Poetry: appreciation</p> <p>Poetry: rhyme scheme, types of rhyme</p> <p>Acrostic</p> <p>Poetry: narrative poem</p>	<p>Literary elements: characters, setting, plot, conflict, point of view, theme, mood</p> <p>Prefix <i>ex-</i>; roots <i>domin</i>, <i>son</i></p> <p>Critical thinking: propositions</p> <p>Theme</p> <p>Short story</p> <p>Novel</p> <p>Persuasive writing</p> <p>Advertisements</p> <p>Diction</p> <p>Poetry: reading aloud</p> <p>Poetry: enjambment, end-stopped lines</p> <p>Direct and indirect characterization</p> <p>Essay</p> <p>Paradox</p> <p>Poetry: iambic, trochaic, anapestic, dactylic meter</p> <p>Poetry: parallel structure of stanzas</p> <p>Poetry: guidelines for scanning meter</p> <p>Organizational patterns</p> <p>Symbol</p> <p>Informational text compared to narratives</p> <p>Types of indirect characterization</p>	<p>Literary genres: autobiography, biography, essay, fable, folktale, historical fiction, legend, myth, parable, realistic fiction</p> <p>Prefix <i>com-/con-</i>; roots <i>clud/clus</i>, <i>curr</i></p> <p>Critical thinking: premise, conclusion, argument</p> <p>Frame story</p> <p>Implicit theme</p> <p>Folktale</p> <p>Allegory</p> <p>Narrative writing</p> <p>Irony</p> <p>Integral and backdrop setting</p> <p>Major and minor characters</p> <p>Stereotypes</p> <p>Sarcasm</p> <p>Anecdote</p>	<p>Prefix <i>mono-</i>; roots <i>fect</i>, <i>nov</i></p> <p>Critical thinking: fallacies: appeals to authority, emotion, ignorance, majority</p> <p>Protagonist and antagonist</p> <p>Tone</p> <p>Poetry: formal verse, free verse</p> <p>Descriptive writing</p> <p>Narrative nonfiction</p> <p>Poetry: couplet</p> <p>Poetry: parody</p> <p>Alliteration</p> <p>Assonance</p> <p>Third person point of view: limited, objective, omniscient</p> <p>Satire</p> <p>Style</p> <p>Suspense</p> <p>Purposes of setting</p> <p>Denouement</p>	<p>Prefix <i>pro-</i>; roots <i>quir</i>, <i>sign</i></p> <p>Critical thinking: fallacies: after this—because of this, attacking the man, subjectivism</p> <p>Moral</p> <p>Character motivation</p> <p>Subplot</p> <p>Plot twist</p> <p>Flashback</p> <p>Narrative nonfiction compared to informational text</p> <p>Expository writing</p> <p>Poetry: completing, contrasting, repeating Hebrew parallels</p> <p>Atmosphere</p> <p>Universal theme</p> <p>Dramatic irony</p>

## LITERATURE I based on *Perspectives of Life in Literature* textbook

This course is based on the CLE literature book *Perspectives of Life in Literature*.

Ten LightUnits guide the student in studying the text. The optional **Teacher's Material** introduces and gives overviews of the LightUnits, gives help in grading student work, and includes a scope and sequence and alternate LightUnit Tests. The **Answer Keys** provide answers for LightUnit exercises.

### ***Perspectives of Life in Literature***

#### 1. (Unit 1: Short Story)

Selections: Mama and the Garfield Boys; The Horse; Second Chance; Shago; A Spark Neglected; Cache of Honor.

#### 2. (Unit 1: cont'd)

Selections: The Mote and the Beam; Where Love is, There is God Also; Whom Shall I Fear?; The Great Stone Face; The Doctor of Afternoon Arm; Too Dark.

#### 3. (Unit 2: Poetry)

Selections: Pippa's Song; Sheer Joy; A Psalm of Life; The Pilgrim; The Man With the Hoe; The Jericho Road; Lament; Infinity; The Triolet; The Bible; A Key to Happiness; Winter's Coming; Spring; Lord, What a Change; O God, I Love Thee; Forgiveness; Psalm 1; Psalm 43; Psalm 66; Psalm 119:9-16; Psalm 126.

#### 4. (Unit 2: cont'd)

Selections: George Wagner; The Fool's Prayer; the Battle of Blenheim; A Fable; Prayer Answered by Crosses; The Merchant of Venice; Macbeth; Julius Caesar; What Is So Rare As A Day in June?; The Spacious Firmament; Apostrophe to the Ocean; Elegy Written in a Country Churchyard; Bad Times; Building; The Poet.

#### 5. (Unit 2: cont'd)

Selections: Victory in Defeat; Conscience and Remorse; No Enemies; Betrayal; Blind But Happy; On His Blindness; Sympathy; A Little Bird I Am; The Crystal Christ; The Boat; Calvary; Good Friday; Bigot; Conventionality; Mending Wall; Thy Brother.

#### 6. (Unit 3: Biography)

Selections: Menno Simons, 1496-1561; Grace Abounding to the Chief of Sinners; True . . . Till Death; William Carey, 1761-1834.

#### 7. (Unit 4: Reflections)

Selections: Discipline; The Chariots of God; The Discipline of Deformity; Acres of Diamonds; The Man Who Planted Hope and Grew Happiness; RMS Titanic; Top Man.

#### 8. (Unit 4: cont'd)

Selections: Diary of David Brainerd; Letters of Hermann Stohr; Though He Slay Me; Last Night of Sodom; The Self-Made Fool — Saul; Ruth, the Moabitess.

#### 9./10. (Unit 5: Allegory)

Selections: The Parable of the Ten Virgins; Wheelbarrows; A Plea for Fishing; The Pilgrim's Progress; The Celestial Railroad.

## LITERATURE II based on *Perspectives of Truth in Literature* textbook

This course is based on the CLE literature book *Perspectives of Truth in Literature*.

There are four units in the textbook: an anthology of literature about truth, short stories, poetry, and essays.

The **textbook** has exercises to develop vocabulary, reading comprehension, thinking skills, reading speed, and composition skills.

The optional **Teacher's Material** gives objectives, explanations of exercises, and an answer key for the text exercises.

**Student materials** include a student study guide (which divides the textbook units into ten study units—each with Self Checks and discussion suggestions) and a final [LightUnit] test for each study unit.

### 1. (Unit 1: Anthology of Literature About Truth)

Selections: The Children of Truth; The Children of a Liar; Truth Crushed to Earth; With Whom Is No Variableness; Truth; Of Truth; All Truth Is God's Truth; The Authority of the Scriptures; Revelation; God's Word; We Search the World for Truth; God's Unchanging Word; The Bible.

### 2. (Unit 2: Short Story: Theme)

Selections: Those Who Will Not Learn Must Feel; How Much Land Does a Man Need?; Quality; There Will Come Soft Rains; The Apprentice.

### 3. (Unit 2 cont'd: Character)

Selections: The Piece of String; Mr. Brownlee's Roses; David Kills Goliath; Parable of the Birthday Candles; The Frill; The Parable of the Lost Son; The Bishop's Candlesticks.

### 4. (Unit 2 cont'd: Plot)

Selections: Limb in a Desert; They Grind Exceeding Small; The Silver Mine. Write a short story.

### 5. (Unit 3: Poetry)

Selections: Trees; Pretty Words; The Bells; Psalm 42; God Is at the Anvil; The Eagle; Pied Beauty; When I Heard the Learn'd Astronomer; Stars.

### 6. (Unit 3 cont'd)

Selections: To a Waterfowl; The Lamb; Lines Written in Early Spring; I Saw God Wash the World; The Tuft of Flowers; Inscriptions on a Sundial; Evening Star; The Song of Moses; Sound the Loud Timbrel; The Destruction of Sennacherib; Religion and Doctrine.

### 7. (Unit 3 cont'd)

Selections: The Convergence of the Twain; A Land That Man Has Newly Trod; Paradox; Fueled; Space Age; Ozymandias; Requiem for a Modern Croesus; Gold; Richard Cory; Myself; Four Things; Be Strong.

### 8. (Unit 4: Essay)

Selections: A Great Teacher's Method; The Blind Preacher; The Works of Creation; Poetry and Mystery of the Sea; The English Skylark; The Mockingbird; Seasonal Skyscape; The Geometry of the Spider's Web.

### 9. (Unit 4 cont'd)

Selections: To See It Fall; The Art of Discouragement; That Satisfied Feeling; The Seat of the Scornful; Who Hath Woe?; The Venomous Worm; The Town Pump.

### 10. (Unit 4 cont'd)

Selections: Deny Self and Imitate Christ; The Witness of Hans Bret; A Letter From Hans Bret; My Experience With Christ. Two editorials and an essay selected by the student (or teacher).



# CURRICULUM OVERVIEW

## Sunrise Edition Mathematics

CLE Sunrise Math (Grades 1-9) uses the incremental method of teaching. Each Sunrise Math LightUnit introduces small increments from several branches of mathematics simultaneously. Most of each day's lesson concentrates on rotating review of previously-learned concepts. This constant review helps students master math concepts with a daily variety of material. Teachers' guides are essential for grades 1-2, recommended for grades 3-4, and useful for math teachers of higher levels.

Memorization of the basic number facts in all four operations is emphasized in the first four grades, using daily oral exercises, our own built-in flash-card system, and daily speed drills with charts that give each child visible evidence of his/her progress. Basic geometry, the money system, problem solving, mental math, and number patterns are also introduced early and constantly reviewed for mastery.

The metric and U.S. systems of measurement are taught simultaneously with equal emphasis. Hands-on exercises teach concepts of space and quantity early in the curriculum.

Beginning in Grade 5, basic algebra concepts are incorporated along with more complex arithmetic skills such as long division, decimals, and fraction operations. True-to-life story problems with a Biblical worldview help children understand how math permeates daily life.

Grades 7 and 8 assume mastery of basic arithmetic, and concentrate on consumer math, geometry, and pre-algebra. Students who successfully complete Sunrise Math 700–800 should be able to move directly into any basic Algebra 1.

The first LightUnit in each grade level, beginning with Math 201, is a review of concepts that should have been mastered in the previous grade. These “-01” LightUnits may be used as diagnostic tools along with, or in place of, our Math Diagnostic Tests to determine whether new or incoming students are ready for the rest of that level.

Each of the remaining nine LightUnits in levels 200–800 has a special-interest theme that appears in story problems, nuggets of information, and in some of the teaching lessons. For instance, Math 400 focuses on different countries of the world; Math 600 gives facts about famous mathematicians in history, and Math 700-800 devote each LightUnit to a particular occupation.

Having mastered basic concepts and skills in grades 1-8, the student proceeds to the study of more advanced mathematics in levels 900 through 1200.

LEVEL	MATHEMATICS
<b>Sunrise 100</b>	<b>Basic Arithmetic Skills</b>
<b>Sunrise 200</b>	
<b>Sunrise 300</b>	
<b>Sunrise 400</b>	
<b>Sunrise 500</b>	Counting Number Facts Basic Operations Addition Subtraction Multiplication Division Whole Numbers Fractions Decimals Factors and Multiples Story Problems Metric Geometry Formulas & Ratios Graphs Pre-Algebra
<b>Sunrise 600</b>	
<b>Sunrise 700</b>	
<b>Sunrise 800</b>	
<b>Sunrise 900</b>	<b>Algebra I</b>
<b>1000</b>	<b>Geometry</b>
<b>1100</b>	<b>Algebra II</b>
<b>1200</b>	<b>Functions Trigonometry</b>

<p><b>701</b></p> <p>Tests these skills and concepts:            Geometry Facts            Division with three-digit divisors            Geometry applications            Division with decimals            Using formulas            Percent concepts            Fraction multiplication            Percent applications            Expressions and equations            Proportions            Exponents, integers, and coordinates            Primes and factors            Division puzzle</p>	<p><b>702</b></p> <p><b>Section 1</b>            Formula for the area of a parallelogram            Finding digit sums by casting out nines            Multiplying to solve equations            Christian giving            Fascinating discoveries: golden triangle</p> <p><b>Section 2</b>            Formula for the area of a trapezoid            Writing mixed number percents as decimals without rounding            Using prime factors to find the greatest common factor            Graphs and statistics: tally charts            Fascinating discoveries: digit sums pattern</p> <p><b>Section 3</b>            Using digit sums to check multiplication            Finding the areas of irregular shapes            Subtracting negative integers            Adding, subtracting, and multiplying mixed measures            Percent equivalents for thirds and sixths            Fascinating discoveries: golden rectangles and Fibonacci numbers</p>	<p><b>703</b></p> <p><b>Section 1</b>            Formula for the volume of a triangular prism            Changing fractional percents to decimals without rounding            Multiplying expressions that include variables            Figuring commissions            Fascinating discoveries: the plane</p> <p><b>Section 2</b>            Finding the missing dimensions for area and perimeter of a rectangle            Converting between miles and kilometers            Fractional answers in two-step equations            Graphs and statistics: drawing bar graphs            Fascinating discoveries: graphing relationships</p> <p><b>Section 3</b>            Using digit sums to check division            Rounding mixed numbers to the nearest whole number            Equations, inequalities, and variables            Dividing mixed measures            Using proportions to convert between U.S. and metric measures            Fascinating discoveries: hidden parallelograms</p>	<p><b>704</b></p> <p><b>Section 1</b>            Solving two-step equations with multiplication            Solving inequalities (<math>&lt;</math> <math>&gt;</math>)            Symbols for congruent and similar            Constructing congruent line segments            Honesty in graphing information            Fascinating discoveries: dividing by zero is not allowed</p> <p><b>Section 2</b>            Graphing solutions (<math>&gt;</math> <math>&lt;</math> <math>=</math>)            Percents in story problems: dealing with the remainder            Finding missing angle measures in triangles            Graphs and statistics: building pictographs            Fascinating discoveries: calendar puzzles</p> <p><b>Section 3</b>            Simplifying and solving expressions in equations            Simplifying complex fractions            Using fractional equivalents of percents in story problems            Converting between liters and gallons            Decimal and percent equivalents for eighths            Fascinating discoveries: an endless number loop</p>	<p><b>705</b></p> <p><b>Section 1</b>            Constructing congruent angles            Solving inequalities and graphing their solutions            Combining numbers and words to express large numbers            Understanding depreciation            Fascinating discoveries: everyday metric</p> <p><b>Section 2</b>            Listing prime factors using exponents            Memorizing the powers of the smaller numbers            Reflex angles            Formula for the volume of a cylinder            Graphs and statistics: building line graphs            Fascinating discoveries: nonstandard units of measure</p> <p><b>Section 3</b>            Calculating increase and decrease            Order of operations with exponents            Classifying triangles            Powers of ten            Converting between kilograms and pounds            Fascinating discoveries: more powers of ten</p>
<p><b>706</b></p> <p><b>Section 1</b>            Bisecting an angle            Multiplying positive and negative integers            Multiplying two negative integers            The cost of installment buying            Fascinating discoveries: reflections; flipping the figure</p> <p><b>Section 2</b>            Combining integers in vertical form            Dividing with negative integers            Solving fraction questions using proportions            Graphs and statistics: reading circle graphs and calculating sector percents            Fascinating discoveries: translations; sliding the figure</p> <p><b>Section 3</b>            The exponents 1 and 0            Finding the missing dimensions for any measurement formula            Negative exponents as fractions            Complementary and supplementary angles            Converting between inches and centimeters            Fascinating discoveries: rotation; turning the figure</p>	<p><b>707</b></p> <p><b>Section 1</b>            Bisecting a line segment            Combining like terms to simplify and solve            Negative exponents as decimals            Interest on savings and loans            Fascinating discoveries: networks</p> <p><b>Section 2</b>            Polyhedra            Translating words into expressions or equations            Finding the percent of increase or decrease            Graphs and statistics: calculating degrees for circle graph sectors            Fascinating discoveries: the Konigsberg problem</p> <p><b>Section 3</b>            Finding mean, median, and mode            Finding the surface area of prisms            Choosing equations for problems            Using the distributive property to simplify and solve            Converting between meters and yards            Fascinating discoveries: the Konigsberg solution</p>	<p><b>708</b></p> <p><b>Section 1</b>            Multiplying variable with exponents            Symbols for perpendicular and parallel            Constructing parallel lines            The range of data            Calculating interest in months            Fascinating discoveries: Noah's ark; volume</p> <p><b>Section 2</b>            Symbols for sets            Bible measures of length            Using powers of ten to expand numbers            Graphs and statistics: histograms            Fascinating discoveries: Noah's ark versus a tractor trailer</p> <p><b>Section 3</b>            Using prime factorization to find the LCM            Finding complements, supplements, and opposites            Venn diagrams for the universal set, sets, and subsets            Points on a coordinate plane            Converting between teaspoons and milliliters            Fascinating discoveries: the ark versus railroad cars.</p>	<p><b>709</b></p> <p><b>Section 1</b>            Bible measures of capacity (dry)            Bible measures of capacity (liquid)            Constructing a perpendicular from a point to a line            Finding any part of the distance formula            Figuring operating expenses            Fascinating discoveries: a problem with length</p> <p><b>Section 2</b>            Venn diagrams for intersection of sets            Disjoint sets            The empty set            Arcs and semicircles            Linear relations            Graphs and statistics: choosing an appropriate graph to display data            Fascinating discoveries: Venn diagram challenge</p> <p><b>Section 3</b>            Metric and U.S. measures of land area            Understanding scientific notation            Converting between Celsius and Fahrenheit temperatures            Map scales using proportions            The complement of a set            Fascinating discoveries: Venn diagram challenge</p>	<p><b>710</b></p> <p><b>Section 1</b>            Old Testament shekels and talents            Special sets of numbers            Writing numbers in scientific notation            Finding unit price to the nearest cent            Fascinating discoveries: circle of beads</p> <p><b>Section 2</b>            Diagonals of polygons            Twenty-four-hour digital time            Graphing linear equations            Graphs and statistics: double line graphs            Fascinating discoveries: diagonal diversion</p> <p><b>Section 3</b>            New Testament measures of weight and money            Using prime factors to reduce fractions            Scale drawings using proportions            The relationship of volume to capacity in the metric system            Constructing a congruent figure using a reflection            Fascinating discoveries: tessellations</p>

# MATHEMATICS TEXTBOOK 7

<p><b>Unit 1</b></p> <p>Number Properties; Focusing on Facts; Identifying and Locating Points on a Grid</p> <p>Simplifying Expressions; Adding and Subtracting Fractions</p> <p>Identifying Parts of a Solid; Combining Integers</p> <p>Dividing Whole Numbers</p> <p>Understanding Exponents; Multiplying Fractions</p> <p>Converting From Ratios to Decimals, Percents, or Fractions</p> <p>Solving Word Problems</p> <p>Finding Prime Factors</p> <p>Solving and Checking Equations</p> <p>Simplifying Expressions by Substituting Variables With Numbers; Dividing Fractions</p> <p>Converting Percents Greater Than 100%; Naming, Measuring, and Classifying Angles</p> <p>Simplifying Expressions by Combining Like Terms; The Distributive and Associative Properties</p> <p>Identifying Quadrilaterals</p>	<p><b>Unit 2</b></p> <p>Dividing Decimals; Identifying Parts of a Circle</p> <p>Dividing to Solve Equations; Finding a Percent of a Number and Computing Sales Tax</p> <p>Formulas for the Area of Polygons; Converting Fractions to Decimals</p> <p>Making a Tally Chart</p> <p>Repeating Decimal Quotients; Formula for Perimeter and Volume</p> <p>Using Prime Factors to Find Greatest Common Factor; Converting Mixed Number Percents to Decimals</p> <p>Formula for the Circumference of a Circle; Using Proportions to Convert U.S. Measures</p> <p>Dividing to Solve Two-Step Equations</p> <p>Finding the Area of Irregular Shapes</p> <p>Subtracting Integers</p> <p>Classifying Triangles by Angles and Sides</p> <p>Multiplying to Solve Equations</p> <p>Using Proportions to Solve Percent Problems</p>	<p><b>Unit 3</b></p> <p>Formula for the Area of a Circle</p> <p>Multiplying Expressions That Include Variables</p> <p>Calculating Discount and Sale Prices</p> <p>Building Bar Graphs</p> <p>Finding the Missing Dimension for the Area and the Perimeter of a Rectangle</p> <p>Solving Equations With Fractional Solutions; Adding, Subtracting, and Multiplying Mixed Units of Measure</p> <p>Finding Commission</p> <p>Using a Proportion to Convert Between Miles and Kilometers</p> <p>Formula for the Area of a Trapezoid</p> <p>Rounding Mixed Numbers to the Nearest Whole Number</p> <p>Equations, Inequalities, and Variables</p> <p>Dividing Mixed Measures</p> <p>Converting Fractional Percents to Decimals</p>	<p><b>Unit 4</b></p> <p>Measuring Angles of a Triangle</p> <p>Multiplying to Solve Two-Step Equations</p> <p>Solving Percent Word Problems With Remainders; Decimal and Percent Equivalents for Eighths</p> <p>Building Pictographs</p> <p>Identifying Congruent and Similar Figures</p> <p>Solving Inequalities</p> <p>Simplifying Expressions and Solving Equations</p> <p>Using Proportions to Convert Between Gallons and Liters</p> <p>Honesty in Graphing Information</p> <p>Graphing Solutions (<math>=, &lt;, &gt;</math>)</p> <p>Using Fractional Equivalents of Percents in Word Problems</p> <p>Constructing Congruent Line Segments</p> <p>Finding Missing Angle Measurements in Triangles</p>	<p><b>Unit 5</b></p> <p>Combining Numbers and Words to Express Large Numbers</p> <p>Formula for the Volume of a Triangular Prism</p> <p>Order of Operations With Exponents and Square Roots</p> <p>Building Line Graphs</p> <p>Identifying Reflex Angles</p> <p>Using Exponents to List Prime Factors</p> <p>Calculating Depreciation</p> <p>Using Proportions to Convert Between Pounds and Kilograms</p> <p>Calculating Unit Price to the Nearest Cent</p> <p>Graphing Solutions (<math>\geq, \leq</math>)</p> <p>Calculating the Amount of Increase or Decrease</p> <p>Formula for the Volume of a Cylinder</p> <p>Simplifying Complex Fractions</p>
<p><b>Unit 6</b></p> <p>Constructing Congruent Angles</p> <p>Multiplying Numbers When the Signs Are Different</p> <p>The Cost of Installment Buying</p> <p>Reading Circle Graphs and Calculating Sector Percents</p> <p>Finding Any Missing Dimension</p> <p>Multiplying Numbers When the Signs Are the Same</p> <p>Rules for Exponents of 1 and 0</p> <p>Using a Proportion to Convert Between Inches and Centimeters</p> <p>Using Proportions to Solve Fraction Questions</p> <p>Identifying Complementary and Supplementary Angles</p> <p>Dividing Negative Numbers</p> <p>Multiplying Variables With Exponents</p> <p>Using the Formula to Find Distance</p>	<p><b>Unit 7</b></p> <p>Bisecting an Angle</p> <p>Translating Words to Numbers and Symbols</p> <p>Combining Like Terms to Simplify and Solve Equations</p> <p>Calculating Degrees for Circle Graph Sectors</p> <p>Identifying Polyhedra and Their Nets</p> <p>Choosing Equations for Word Problems</p> <p>Finding Mean, Median, and Mode</p> <p>Using a Proportion to Convert Between Yards and Meters</p> <p>Finding the Surface Area of a Prism</p> <p>Interest on Savings and Loans</p> <p>Using the Distributive Property to Simplify and Solve Equations</p> <p>Calculating the Percent of Increase and Decrease</p> <p>Writing Negative Exponents as Decimals</p>	<p><b>Unit 8</b></p> <p>Bisecting a Line Segment</p> <p>Symbols for Sets</p> <p>Calculating Interest for Months</p> <p>Histograms</p> <p>Using the Distance Formula to Find Rate and Time; Finding the Range of a Set of Data</p> <p>Venn Diagrams for Universal Sets, Sets, and Subsets</p> <p>Dividing Variables With Exponents</p> <p>Converting Between Teaspoons and Milliliters</p> <p>Finding Complements, Supplements, and Opposites</p> <p>Points on a Coordinate Plane</p> <p>Using Powers of Ten to Expand Numbers</p> <p>Converting Bible Measures of Length</p> <p>Using Prime Factorization to Find the LCM</p>	<p><b>Unit 9</b></p> <p>Constructing Parallel Lines</p> <p>Making a Table of Values</p> <p>Calculating Operating Expenses</p> <p>Choosing Appropriate Graphs to Display Data</p> <p>Venn Diagram for Intersection of Sets</p> <p>Graphing Linear Relations</p> <p>Disjoint Sets and the Empty Set</p> <p>Converting Bible Measures of Capacity to Standard Measures</p> <p>Complement of a Set</p> <p>Map Scales Using a Proportion</p> <p>Changing Standard Form to Scientific Notation</p> <p>Converting Between Celsius and Fahrenheit Temperatures</p> <p>U.S. and Metric Land Area Measures</p>	<p><b>Unit 10</b></p> <p>Constructing a Perpendicular Line From a Point to a Line</p> <p>Graphing Linear Equations</p> <p>Changing Scientific Notation to Standard Form</p> <p>Reading Double Line Graphs</p> <p>Converting Bible Measures to Standard Measures</p> <p>Identifying Diagonals of Polygons</p> <p>Special Sets of Numbers</p> <p>Using Prime Factorization to Reduce Fractions</p> <p>Comparing Old Testament Shekels and Talents</p> <p>Twenty-Four-Hour Digital Time</p> <p>Using a Proportion to Find the Actual Size of a Scale Drawing</p> <p>The Relationship of Volume to Capacity in the Metric System</p> <p>Using Reflection to Construct a Congruent Figure</p>



<p><b>801</b></p> <p>Tests these skills and concepts:  Integer computation  Math facts to know  Solving equations  Percent concepts  Area and volume  Expressions  Percent applications  Geometry  Prime numbers  U.S./metric conversions  Inequalities</p>	<p><b>802</b></p> <p><b>Section 1</b>  Finding the areas of irregular shapes containing circle parts  Using prime factorization to find the LCM  The distributive property with negative numbers  Profit and loss  Fascinating discoveries: The Greek Cross</p> <p><b>Section 2</b>  Finding the surface area of pyramids  The subtraction/negative sign  Understanding probability  Expressing certainty  Visualizing probabilities  Bar graphs  Fascinating discoveries: faithful formulas for surface areas of pyramids and prisms</p> <p><b>Section 3</b>  The Pythagorean Theorem  Showing profit and loss as a percent of sales  Using the interest formula for partial years  Points on a coordinate plane  Fluid ounces, pints, quarts, and gallons  Fascinating discoveries: the 3-4-5 Rule</p>	<p><b>803</b></p> <p><b>Section 1</b>  Constructing congruent triangles  Squaring fractions and decimals  Like terms in expressions  Automobile purchase costs  Fascinating discoveries: angel food cakes</p> <p><b>Section 2</b>  Simplifying expressions that include different variables  Finding the surface area of cylinders  Using numbers for probability  Graphs and statistics: Bar-in-a-bar graph  Fascinating discoveries: density of water – Part 1</p> <p><b>Section 3</b>  Changing fractional percents to decimals (with rounding)  Simplifying expressions that include exponents  Linear relations  Rational and irrational numbers  Perfect squares and irrational square roots  Fascinating discoveries: density of water – Part 2</p>	<p><b>804</b></p> <p><b>Section 1</b>  Multiplying combinations of variables, constants, and exponents  Constructing congruent angles  Probability with more than two options  Convenient store pricing  Fascinating discoveries: using your watch to determine your speed</p> <p><b>Section 2</b>  Solving equations with a squared variable  Finding the surface area of cones  Finding square roots on a calculator  Graphs and statistics: Circle graph  Fascinating discoveries: negative roots</p> <p><b>Section 3</b>  Finding lengths using the Pythagorean Theorem  The relationship of volume to capacity in U. S. measures  Counting change from a cash register display  Order of operations with grouping symbols: parentheses, brackets, and braces  Graphing linear equations  Fascinating discoveries: understanding the formula for surface area of cones</p>	<p><b>805</b></p> <p><b>Section 1</b>  Finding volume with varied units  Constructing a triangle with three given sides  Reducing algebraic fractions  Generic and store brand items  Fascinating discoveries: sums, squares, and differences</p> <p><b>Section 2</b>  Graphing linear equations on a coordinate plane  Scientific notation  Probability and percents  Histograms  Fascinating discoveries: calculator fun</p> <p><b>Section 3</b>  Dividing variables with exponents  Formula for the surface area of a sphere  Overhead (fixed costs)  Unit price: Changing thousandths of a dollar to tenths of a cent  Multiplying numbers in scientific notation  Fascinating discoveries: 3 x 3 squares.</p>
<p><b>806</b></p> <p><b>Section 1</b>  Markup and selling price  Constructing a triangle with two given sides and a given angle (SAS)  Finding the volume of pyramids and cones  Introduction to insurances  Fascinating discoveries: constructing regular hexagons and equilateral triangles</p> <p><b>Section 2</b>  Simplifying expressions with division bars  Using the percent proportion to solve story problems  Combination probability  Line graphs  Fascinating discoveries: constructing geometric designs</p> <p><b>Section 3</b>  Distances between points  Mental multiplication using the distributive property  Dividing numbers in scientific notation  Counting back change without a cash register  Measuring electricity: kilowatt-hours  Fascinating discoveries: reading an electric meter</p>	<p><b>807</b></p> <p><b>Section 1</b>  Solving equations with fractional coefficients  Constructing a triangle with two given angles and their contained side  Chain discounts  Calculating insurance premiums  Fascinating discoveries: divisibility rule for 11</p> <p><b>Section 2</b>  Solving equations with negative numerical coefficients  Extracting the square root  Multiple probability  Graphs and statistics: multiple line graphs  Fascinating discoveries: divisibility rule for 7</p> <p><b>Section 3</b>  Opposite and adjacent sides in trigonometry  Simplifying after multiplying or dividing in scientific notation  Unit price to tenths of cent  Making change without a cash register when the customer gives both bills and coins  Levels of precision  Fascinating discoveries: divisibility rule for thirteen</p>	<p><b>808</b></p> <p><b>Section 1</b>  Multiplying negative numbers in a series  Simplifying negative numbers with exponents  Formula for the volume of a sphere  Measuring electricity: Volts, amperes, and watts  Property tax in mills  Fascinating discoveries: divisibility rule for seventeen</p> <p><b>Section 2</b>  Multiple probability without replacement  Variables on both sides of a simple equation  Multiplying square roots  Graphs and statistics: Pictographs  Fascinating discoveries: divisibility rule for nineteen</p> <p><b>Section 3</b>  The multiplication principle of counting  Introduction to sine, cosine, and tangent  Unit price: Dissimilar units  Using proportions to solve fraction story problems  The trigonometry chart  Fascinating discoveries: gold and silver softballs</p>	<p><b>809</b></p> <p><b>Section 1</b>  Variables on both sides of a complex equation  Compound interest  Counting significant digits  Vehicle insurance  Fascinating discoveries: compound interest formula</p> <p><b>Section 2</b>  Permutations  Which is the better buy?  Rounding according to significant digits  Graphs and statistics: Rectangle graphs  Fascinating discoveries: exponential Christianity</p> <p><b>Section 3</b>  Solving Inequalities: Multiplying or dividing by a negative number  Sine, cosine, and tangent applications  Volume of an irregular solid  Percentiles  Combining square roots  Fascinating discoveries: how wide is the river?</p>	<p><b>810</b></p> <p><b>Section 1</b>  Recognizing wants and needs  Budgeting – Tracking present expenses  Writing a check  Important safety tips for writing a check  Budgeting – Projecting future expenses  Credit cards  Keeping a check register  Debit and ATM cards  Other checking account transactions  Budgeting – Making it work  Cashing or depositing a check  Recording expenses using a multicolumn journal  Reconciling your check register with your bank statement  The path of a check</p>

<p><b>Unit 1</b></p> <p>Types of numbers Graphing real numbers; absolute values Real number properties; fractions Adding and subtracting fractions Adding positive and negative numbers Multiplying and dividing fractions; arithmetic with decimals Subtracting positive and negative numbers Variables, constants, and algebraic expressions Applications of positive and negative numbers Multiplying positive and negative numbers Dividing positive and negative numbers Ratios and percents</p>	<p><b>Unit 2</b></p> <p>Exponents; exponents and negative signs Translating from word expressions to math expressions Operations with exponential expressions Order of operations Using parentheses to translate from word expressions to Math expressions Combining like terms Multiplying terms Dividing terms The distributive property Roots and radicals Recognizing and representing values algebraically Equations</p>	<p><b>Unit 3</b></p> <p>The distributive property and division Mathematically related values Solving more complex equations Polynomials Factors and factoring Adding polynomials Greatest common factor Complex relationships between values Solving equations with fractions or decimals Subtracting polynomials Factoring the greatest common factor from a polynomial Simplifying radicals</p>	<p><b>Unit 4</b></p> <p>Solving literal equations Setting up equations Simplifying radicals with variables Solving two-variable equations Multiplying binomials Graphing ordered pairs Graphing inequalities Graphing two-variable (linear) equations Graphing compound inequalities: conjunctions and disjunctions Multiplying larger polynomials Slopes of linear equation graphs Squaring binomials</p>	<p><b>Unit 5</b></p> <p>The slope formula Establishing equalities using geometry or additional quantities Multiplying radicals Graphing from the slope-intercept form Mean, median, and mode Solving inequalities Including the value of items in equations Simplifying radicals with numbers and variables Multiplying sum and difference binomials Writing the equation of a graph Establishing equalities for rates and mixtures Factoring a difference of squares</p>
<p><b>Unit 6</b></p> <p>Graphing from the x- and y- intercepts Factoring perfect square trinomials Systems of linear equations Solving systems of equations by substitution Stem-and-leaf plots Factoring trinomials in the form <math>x^2 + bx + c</math> Direct variation: <math>y = kx</math> Rational expressions: canceling factors Solving systems of equations by addition/elimination Reviewing uses of the negative sign Equalities between identical formulas Multiplying rational expressions</p>	<p><b>Unit 7</b></p> <p>Solving systems of equations by multiplication/addition Factoring by grouping Writing a linear equation from a point and a slope Dividing rational expressions Range and standard deviation Factoring trinomials in the form <math>ax^2 + bx + c</math> Adding and subtracting radicals Writing a linear equation from two points Equalities between interest applications Graphing linear inequalities Inverse variation: <math>y = kx</math> Dividing a trinomial by a binomial</p>	<p><b>Unit 8</b></p> <p>Factoring completely Writing equivalent rational expressions Adding and subtracting rationals with common denominators Graphing systems of linear inequalities Box-and-whisker plots and outliers Dividing polynomials with remainders Lowest common denominator Quadratic equations: solving by factoring Rational expressions: excluded values Solving applications by using systems of equations Functions Dividing larger polynomials</p>	<p><b>Unit 9</b></p> <p>Quadratic equations: taking the square root of both sides Dividing radicals Adding and subtracting rationals with unlike denominators Rationalizing denominators Scatter plots Equations: completing the square Dividing polynomials with missing terms Complex rational expressions Quadratic equations: solving by completing the square The domain of a function Solving rational expressions Quadratic equations: the quadratic formula</p>	<p><b>Unit 10</b></p> <p>Fractional exponents Absolute value equations Canceling in unit conversion Graphing absolute value inequalities Best fit lines and extrapolation The discriminant of a quadratic equation Multiplying and dividing with fractional exponents Longer unit conversions probability Applications using inequalities Function notation Graphing a system with an equation and an inequality</p>



<p><b>1001</b></p> <p><b>A Mathematical System</b></p> <p><b>Undefined Terms</b> Points Lines Planes</p> <p><b>Basic Definitions</b> A Definition of Definitions Geometric Terms</p> <p><b>Geometric Statements</b> Postulates Theorems</p>	<p><b>1002</b></p> <p><b>Proof</b></p> <p><b>Logic</b> Conjunction Disjunction Negation Conditional Converse, Inverse, Contrapositive</p> <p><b>Reasoning</b> Induction Deduction</p> <p><b>Proof Formats</b> The Two-Column Proof The Paragraph Proof</p>	<p><b>1003</b></p> <p><b>Angle Relationships and Parallels</b></p> <p><b>Angle Definitions and Measurements</b> Angle Definitions Angle Measurement</p> <p><b>Angle Relationship and Theorems</b> Relationship Definitions Theorems</p> <p><b>Parallels</b> Basic Properties Transversal and Special Angles</p> <p><b>Applying Parallels to Polygons</b> Triangles Other Polygons</p>	<p><b>1004</b></p> <p><b>Congruent Triangles and Quadrilaterals</b></p> <p><b>Triangles</b> Defining Congruent Triangles Proving Triangles Congruent Proving Right Triangles Congruent</p> <p><b>Corresponding Parts</b> Independent Triangles Overlapping Triangles Isosceles Triangles</p> <p><b>Inequalities</b> Inequalities in One Triangle Inequalities in Two Triangles</p> <p><b>Quadrilaterals</b> Parallelograms Trapezoids</p>	<p><b>1005</b></p> <p><b>Similar Polygons</b></p> <p><b>Principles of Algebra</b> Ratios and Proportions Properties of Proportions</p> <p><b>Similarity</b> Theorems About Similar Polygons Theorems About Similar Triangles</p> <p><b>Right Triangles</b> Geometry Trigonometry Indirect Measure</p>
<p><b>1006</b></p> <p><b>Circles</b></p> <p><b>Circles and Spheres</b> Characteristics of Circles Characteristics of Spheres</p> <p><b>Tangents, Arcs, and Chords</b> Tangents Arcs Chords Theorems Special Angles and Segments     Related to Circles Special Angles Special Segments</p>	<p><b>1007</b></p> <p><b>Construction and Locus</b></p> <p><b>Basic Construction</b> Copying Figures Bisecting Constructing Perpendiculars Constructing Parallels Constructing With Measures</p> <p><b>Figure Construction</b> Triangles Circles Polygons</p> <p><b>Locus</b> Meaning Intersection Construction</p>	<p><b>1008</b></p> <p><b>Area and Volume</b></p> <p><b>Polygons</b> Area Concepts Rectangle Parallelogram Triangle Trapezoid Regular Polygon Area Comparisons</p> <p><b>Circles</b> Circumference and <math>\pi</math> Area of a Circle Area of a Sector Area of a Segment</p> <p><b>Solids</b> Prism Pyramid Cylinder Cone Sphere</p>	<p><b>1009</b></p> <p><b>Coordinate Geometry</b></p> <p><b>Ordered Pair</b> Points in a Plane Symmetry Graphs of Algebraic Conditions</p> <p><b>Distance</b> Distance Formula Equation of a Circle Midpoint Formula</p> <p><b>Lines</b> Slope Parallel and Perpendicular Lines Equation of a Line</p> <p><b>Proofs by Coordinate Methods</b> Placement of Figures Applications in Proofs</p>	<p><b>1010</b></p> <p><b>Geometry Review</b></p> <p><b>Geometry, Proof, and Angle</b> Geometry as a System Proof Angle Relationships and Parallels</p> <p><b>Triangles, Quadrilaterals, Polygons, and Circles</b> Congruent Triangle and Quadrilaterals Similar Polygons Circles</p> <p><b>Construction, Measurement, and Coordinate Geometry</b> Construction and Locus Area and Volume Coordinate Geometry</p>

<p><b>Unit 1</b></p> <p>Sets Order of Operations Real Number Properties Exponents Equations Identities and Contradictions;     Literal Equations Solving and Graphing Inequalities Graphing Linear Equations Compound Inequalities Multiplying Polynomials The Slope Formula Writing Linear Equations</p>	<p><b>Unit 2</b></p> <p>Factoring Polynomials Systems of Equations Solving Absolute Value Equations Graphing Linear Inequalities Simplifying Radicals Solving Systems of Equations by     Elimination Multiplying and Dividing Radicals Graphing Two-Variable Linear     Inequalities Quadratic Equations Imaginary Numbers Linear Programming Completing the Square</p>	<p><b>Unit 3</b></p> <p>Factoring By Grouping Dividing Polynomials by Long     Division Introduction to Functions Graphing Quadratic Functions Synthetic Division The Quadratic Formula The Discriminant of the Quadratic     Formula Translated Quadratic Functions Three-Variable Systems Combining Complex Numbers Operations with Functions Reducing Rational Expressions</p>	<p><b>Unit 4</b></p> <p>Factoring Completely Factoring a Difference or Sum of     Cubes Rationalizing Radical Denominators Completing the Square of a     Quadratic Function Dividing Complex Numbers Finding the LCM to Add and Subtract     Rational Expressions Rationalizing Binomial Denominators     Containing Radicals Graphing Quadratic Function     Inequalities Polynomial Equations and     Polynomial Functions Complex Rational Expressions Graphing Polynomial Functions Rational Equations</p>	<p><b>Unit 5</b></p> <p>The Pythagorean Theorem Matrices The Distance and Midpoint Formulas Radical Equations Multiplication of Two Matrices Trigonometric Ratios Equations with Multiple Radicals The Fundamental Principle of     Counting Matrix Determinants Fractional Exponents Graphing Simple Rational Functions Solving Right Triangles</p>
<p><b>Unit 6</b></p> <p>Simplifying Complex Radical     Expressions Composite Functions Conic Sections and Analytic     Geometry: Circles Arithmetic Sequences Permutations Trigonometric Ratios of Angles     Greater Than <math>90^\circ</math> Geometric Sequences Permutations of Partial Sets Statistics: Measures of Center Completing the Square for Circles Measures of Variability: Range and     Standard Deviation Graphing Linear Rational Functions     in General Form</p>	<p><b>Unit 7</b></p> <p>Cramer's Rule Finding the <math>n</math>th Term of an     Arithmetic Sequence Combinations Radian Measure Applications of Composite Functions Conic Sections and Analytic     Geometry: Parabolas Finding the <math>n</math>th Term of a Geometric     Sequence Probability Exponential Functions Logarithms Multiple Probabilities Radical Functions</p>	<p><b>Unit 8</b></p> <p>The Gauss-Jordan Method of     Solving Two Equation Systems Arithmetic Series Graphing a Sine Function Common and Natural Logarithms Translated Exponential Functions Conic Sections and Analytic     Geometry: Translated Parabolas The Cosine Function Geometric Series Conic Sections and Analytic     Geometry: Horizontal Parabolas The Gauss-Jordan Method of     Solving Three Equation Systems Histograms and Normal Distributions Convergent Infinite Geometric Series</p>	<p><b>Unit 9</b></p> <p>Conic Sections and Analytic     Geometry: Ellipses Properties of Logarithms Area of Triangles Change-of-Base Property The Tangent Function Determining the Foci of an Ellipse The Law of Sines The Exponential Growth or Decay     Formula Exponential Equations Conic Sections and Analytic     Geometry: Translated Ellipses Probability of Compound Events Solving Exponential Equations with     Unlike Bases</p>	<p><b>Unit 10</b></p> <p>The Law of Sines and the     Ambiguous Case - Part 1 Conic Sections and Analytic     Geometry: Hyperbolas Box and Whisker Plots Data Relationships, Scatter Plots,     and Best Fit Lines Summation Notation Bacterial Growth and Radioactive     Decay: Part 2 Changing a Repeating Decimal to its     Rational Form The Law of Sines and the     Ambiguous Case - Part 2 Measuring Correlation Using <math>r</math> The Law of Cosines Conic Sections and Analytic     Geometry: Translated Hyperbolas Linear Regression</p>

<p><b>1201</b></p> <p><b>Relations and Functions</b></p> <p><b>Ordered-Pair Numbers</b>  Relations  Functions  Rules of Correspondence</p> <p><b>The Algebra Functions</b>  Notation  Arithmetic  Composition  Inverse</p>	<p><b>1202</b></p> <p><b>Functions</b></p> <p><b>Linear Functions</b>  Solutions and Graphs  Equations  Linear Inequalities</p> <p><b>Second-Degree Functions</b>  Solutions  Relationships Between Zeros and Coefficients  Quadratic Inequalities</p> <p><b>Polynomial Functions</b>  Remainder Theorem  Factor Theorem  Synthetic Division  Nth Degree Equation</p> <p><b>Special Functions</b>  Greatest Integer Function  Exponential Function  Logarithmic Function  Function Combinations</p>	<p><b>1203</b></p> <p><b>The Trigonometric Functions</b></p> <p><b>Definition of the Trigonometric Functions</b></p> <p><b>Evaluation of Functions</b></p> <p><b>Angle Location</b></p> <p><b>Trigonometric Tables</b></p> <p><b>Use of Tables and Interpolation</b></p> <p><b>Reduction Formulas</b></p> <p><b>Quadrantal Angles</b></p> <p><b>Special Angles</b></p> <p><b>Radian Measure</b></p>	<p><b>1204</b></p> <p><b>The Circular Functions and Their Graphs</b></p> <p><b>The Circular Functions</b></p> <p><b>Circular Functions of Special Angles</b></p> <p><b>Graphs of Sin and Cos</b></p> <p><b>Other Graphs</b></p> <p><b>Applications</b></p> <p><b>Amplitude of Circular Functions</b></p> <p><b>Period of Circular Functions</b></p> <p><b>Phase Shift of Circular Functions</b></p>	<p><b>1205</b></p> <p><b>Identities and Functions of Multiple Angles</b></p> <p><b>Reciprocal Relations</b></p> <p><b>Pythagorean Relations</b></p> <p><b>Quotient Relations</b></p> <p><b>Trigonometric Identities</b></p> <p><b>Cosine of the Sum of Two Angles</b></p> <p><b>Additional Sum and Difference Formulas</b></p> <p><b>Double- and Half-Angle Formulas</b></p> <p><b>Identities</b></p> <p><b>Trigonometric Equations</b></p>
<p><b>1206</b></p> <p><b>Application of Trigonometric Functions</b></p> <p><b>Trigonometric Functions of any Angle</b></p> <p><b>Applied Problems</b></p> <p><b>Law of Cosines</b></p> <p><b>Law of Sines</b></p> <p><b>More Applications</b></p> <p><b>Additional Application Problems</b></p>	<p><b>1207</b></p> <p><b>Trigonometric Functions and Polar Coordinates</b></p> <p><b>The Inverse Sin Function</b></p> <p><b>The Inverse Cos Function</b></p> <p><b>The Inverse Tan Function</b></p> <p><b>The Other Inverse Functions</b></p> <p><b>Graphs of Inverse Functions</b></p> <p><b>Graphing Polar Coordinates</b></p> <p><b>Converting Coordinates</b></p> <p><b>Converting Cartesian Equations to Polar Equations</b></p> <p><b>Converting Polar Equations to Cartesian Equations</b></p> <p><b>Graphing Polar Equations</b></p>	<p><b>1208</b></p> <p><b>Quadratic Equations</b></p> <p><b>The Conic Sections: Circle and Ellipse</b>  The Circle  The Ellipse</p> <p><b>Conic Sections: Parabola and Hyperbola</b>  The Parabola  The Hyperbola</p> <p><b>Transformations</b>  Translation  Rotation</p>	<p><b>1209</b></p> <p><b>Probability</b></p> <p><b>Random Experiments and Probability</b>  Definitions, Samples, Spaces, and Probability  Addition of Probabilities  Multiplication of Probabilities</p> <p><b>Permutations and Combinations</b>  Definitions  Permutations of N Things That Are Different  Permutations of N Things Not All Different  Circular Permutations  Combinations</p> <p><b>Applications (Optional)</b>  Binomial Distribution  Random Variables and Probability Distribution  Miscellaneous Problems</p>	<p><b>1210</b></p> <p><b>Calculus and Review</b></p> <p><b>Mathematical Induction</b>  Summation  Proofs by Mathematical Induction</p> <p><b>Functions and Limits</b>  Function Notation  Difference Quotient  Limits</p> <p><b>Slopes of Functions</b>  Slope of a Line  Slope of a Curve</p> <p><b>Mathematics LightUnits 1201 Through 1210 Review</b></p>



# CURRICULUM OVERVIEW

## Science

Beginning with God's creation, the science series teaches the student about himself and his environment. It emphasizes God as creator and sustainer of the universe. In teaching scientific facts and truths, it seeks to honor the Creator—all laws are God's laws; all life is God's life; all truth is God's truth.

Level 100 (a five-LightUnit course) is optional in order to provide the student more time for the Reading curriculum. At this level reading is the most important subject since it is the basis for progress in every other subject. Level 200 is supplemental and not required.

Levels 100 through 800 teach basic knowledge about man and his physical environment and emphasize our "stewardship" responsibility toward God's creation. Health studies—addressing proper nutrition, hygiene, and disease—form part of the content of these levels.

Levels 900 through 1200 teach general science, biology, chemistry, and physics.

Independent and interesting investigations and experiments allow students to experience God's creation firsthand and to learn wise stewardship of His resources.

LEVEL	SCIENCE
<b>Sunrise 100</b>	<b>God's Creation</b> <ul style="list-style-type: none"> <li>• Man</li> </ul>
<b>Sunrise 200</b>	<ul style="list-style-type: none"> <li>• Plants</li> <li>• Animals</li> <li>• Birds</li> </ul>
<b>300</b>	<ul style="list-style-type: none"> <li>• Earth</li> <li>• Universe</li> </ul>
<b>400</b>	<ul style="list-style-type: none"> <li>• Physical Laws &amp; Properties</li> <li>• Earth Sciences</li> </ul>
<b>Sunrise 500</b>	<ul style="list-style-type: none"> <li>• Life Sciences</li> </ul>
<b>Sunrise 600</b>	<b>Man's World</b> <ul style="list-style-type: none"> <li>• Environment</li> <li>• Machines</li> <li>• Energy</li> <li>• Health</li> </ul>
<b>700</b>	<ul style="list-style-type: none"> <li>• Stewardship</li> <li>• Sciences of Tomorrow</li> </ul>
<b>800</b>	
<b>900</b>	<b>General Science</b>
<b>1000</b>	<b>Biology</b>
<b>1100</b>	<b>Chemistry</b>
<b>1200</b>	<b>Physics</b>

# SCIENCE 700

<p><b>701</b></p> <p><b>God-Designed Plant Systems</b></p> <p><b>Photosynthesis System</b> Location Products Rate</p> <p><b>Transport System</b> Roots Stems Leaves</p> <p><b>Regulatory System</b> Natural Regulation Artificial Regulation</p>	<p><b>702</b></p> <p><b>God-Designed Body Systems</b></p> <p><b>Digestive System</b> Structure Function</p> <p><b>Circulatory, Respiratory, and Excretory Systems</b> Blood Circulation Respiratory System Excretory System</p> <p><b>Skeletal and Muscular System</b> Structure and Function Health and Disease</p>	<p><b>703</b></p> <p><b>The Behavior of Living Things</b></p> <p><b>Human and Animal Behavior</b> Nervous System Types of Behavior Intelligence</p> <p><b>Plant Behavior</b> Tropisms: Kinds Tropisms: Functions Touch-Sensitive Plants</p> <p><b>Plant-Animal Interaction</b> Biomes Food Chain Cycles Balance of Nature</p>	<p><b>704</b></p> <p><b>Molecular Genetics</b></p> <p><b>Reproduction</b> Reproduction in Flowers Male-Female Reproduction</p> <p><b>Inheritance</b> Mendel's Work The Punnett Square Inheritance of Taste Incomplete Dominance Multiple Genes</p> <p><b>DNA, Mutations, and the Environment</b> Mutations The Use of Mutations Temperature Influence on Coloration Position of Peas in a Pod</p>	<p><b>705</b></p> <p><b>Chemical Structure and Change</b></p> <p><b>Nature of Water</b> Description Simple Substances Molecules and Compounds</p> <p><b>Periodic Table</b> Chemical Symbols Atomic Weights Arrangement of the Periodic Table</p> <p><b>Chemical Change</b> Diagrams of Atoms Acids and Bases</p>
<p><b>706</b></p> <p><b>Light and Sound</b></p> <p><b>Waves</b> Sound Waves Light Waves The Speed of Light</p> <p><b>The Spectrum</b> Newton's Experiment The Visible Spectrum</p> <p><b>Colors</b> Absorption of Colors Mixing Colors</p>	<p><b>707</b></p> <p><b>Motion and Its Measurement</b></p> <p><b>Definition of Force</b> Work is Accomplished by Force Measurement of Work</p> <p><b>Rate of Doing Work</b> Power Horsepower Energy Newton's Laws of Motion</p> <p><b>Change in Motion</b> Machines and Motion Machines That Change Motion</p>	<p><b>708</b></p> <p><b>Planet Earth</b></p> <p><b>Earth's Motion</b> Earth's Shape Earth's Rotation Earth's Revolution Time</p> <p><b>Eclipses</b> Solar Eclipse Lunar Eclipse</p> <p><b>Our Solar System</b> Planets and Light-Years Asteroids, Comets, and Meteors</p>	<p><b>709</b></p> <p><b>The Sun and Other Stars</b></p> <p><b>The Sun</b> History Description Location Theories</p> <p><b>Stars</b> Colors and Temperatures Giants and Dwarfs Elements and Spectra Magnitude and Luminosity Light-Years and Astronomical Units</p> <p><b>Common Stars and Constellations</b> Familiar Constellations Common Stars</p>	<p><b>710</b></p> <p><b>Review</b></p> <p><b>Plant and Animal Systems</b> The Photosynthesis System The Transport System of Plants The Regulatory System of Plants Systems of Man and Animals</p> <p><b>Physics and Chemistry</b> Light Sound Motion Matter</p> <p><b>Planet Earth and the Stars</b> Earth's Rotation Earth's Revolution Eclipses of the Sun and Moon Our Solar System The Sun The Stars</p>

# SCIENCE 800

<p><b>801</b></p> <p><b>Science in Our Lives</b></p> <p><b>Science Today</b>  A Definition of Science  A Brief History of Science  Scientific Measurement</p> <p><b>Science and Technology</b>  A Definition of Technology  Advances in Technology  Conflicts With Society</p> <p><b>Science and Technology of Tomorrow</b>  Projections for Science and Technology  The Limitations of Science and Technology</p>	<p><b>802</b></p> <p><b>Properties of Matter</b></p> <p><b>Properties of Matter</b>  General Properties of Matter  Physical Properties of Matter  Chemical Properties of Matter  States of Matter</p> <p><b>Atoms and Molecules</b>  Atoms  Molecules</p> <p><b>Elements, Compounds, and Mixtures</b>  Elements  Compounds  Mixtures</p>	<p><b>803</b></p> <p><b>Changing Matter</b></p> <p><b>Matter and Change</b>  Physical Change  Chemical Change  Nuclear Change</p> <p><b>Acids</b>  Properties of Acids  The Hydrogen Ion  Indicators  pH of Acids</p> <p><b>Bases</b>  Properties of Bases  The Hydrogen Ion  Indicators  pH of Bases  SALTS  Neutralization  Uses of Salts</p>	<p><b>804</b></p> <p><b>Health and Nutrition</b></p> <p><b>Foods and Digestion</b>  Six Kinds of Nutrients  Digestive System</p> <p><b>Diet</b>  Four Basic Food Groups  A Balanced Menu</p> <p><b>Nutritional Diseases</b>  Nutrition: As It Is and What It Should Be  Deficiencies, Allergies, and Other Reactions</p> <p><b>Hygiene</b>  Body Care  Hygiene of Young People</p>	<p><b>805</b></p> <p><b>Energy</b></p> <p><b>Types of Energy</b>  Kinetic Energy  Potential Energy</p> <p><b>Forms of Energy</b>  Heat Energy  Chemical Energy  Atomic Energy</p> <p><b>Energy Conversion and Entropy</b>  Conversion of Energy Forms  Thermodynamics and Entropy</p>
<p><b>806</b></p> <p><b>Magnets and Electricity</b></p> <p><b>Magnetism</b>  Permanent Magnets  Magnetic Fields  Induced Magnetism</p> <p><b>Electricity</b>  Static Electricity  Current Electricity  Uses of Electricity</p> <p><b>Energy for the Future</b>  Conventional Sources  Alternate Sources</p>	<p><b>807</b></p> <p><b>Using Machines</b></p> <p><b>Distance</b>  Describing Distance  Measuring Distance</p> <p><b>Force</b>  The Meaning of Force  The Laws of Newton  Force Vectors</p> <p><b>Work</b>  Work Defined  Work and Energy  Work and Power</p>	<p><b>808</b></p> <p><b>Levers, Pulleys, Gears, and Things</b></p> <p><b>Friction</b>  Forces of Friction  Types of Friction  Reducing Friction</p> <p><b>Levers</b>  Mechanical Advantage  Classes of Levers</p> <p><b>Wheel and Axle, Pulleys and Gears</b>  Wheel and Axle  Pulleys  Gears</p> <p><b>Inclined Plane, Wedge, and Screw</b>  Inclined Plane  Wedges  Screw</p>	<p><b>809</b></p> <p><b>Balance in Nature</b></p> <p><b>Photosynthesis and Food</b>  Photosynthesis  Food</p> <p><b>Natural Cycles</b>  The Nitrogen Cycle  The Decay Cycle  The Water Cycle  The Carbon and Oxygen Cycle</p> <p><b>Balance and Disruption</b>  Nature in Balance  Human Disruption  Resources</p>	<p><b>810</b></p> <p><b>Science and Technology</b></p> <p><b>Basic Science</b>  Science Skills  Characteristics of Matter  Matter in Change</p> <p><b>Physical Science</b>  Forms of Energy  Magnets and Electricity  Machines at Work  Simple Machines</p> <p><b>Life Science</b>  Nutrition  Health  Balance in Nature  Jobs Available in Health Services</p> <p><b>Vocations in Science and Technology</b>  Technology Today and Tomorrow  Assets and Liabilities  Finding a Job</p>

## SCIENCE 900 General Science

<p><b>901</b></p> <p><b>Our Atomic World</b></p> <p><b>Structure of Matter</b> Phases of Matter Atomic Structure</p> <p><b>Radioactivity</b> Detection Measurement</p> <p><b>Atomic Nuclei</b> Nuclear Composition Nuclear Structure</p> <p><b>Nuclear Energy</b> Fission Fusion</p> <p><b>Nuclear Applications and Environmental Hazards</b> Uses of Nuclear Energy Environmental Problems</p>	<p><b>902</b></p> <p><b>Volume, Mass, and Density</b></p> <p><b>Volume</b> Volume as a Measure of Matter Problems With Volume Measure of Matter</p> <p><b>Mass</b> Mass as a Measure of Matter Weight</p> <p><b>Density</b> Definition Variables Specific Gravity</p>	<p><b>903</b></p> <p><b>Physical Geology</b></p> <p><b>Earth Structures</b> Shape Rocks Layers Igneous Structures Mountains</p> <p><b>Earth Changes</b> Weathering Erosion and Sedimentation</p> <p><b>Earth Movements</b> Isostasy Folding Plate Tectonics</p>	<p><b>904</b></p> <p><b>Historical Geology</b></p> <p><b>An Observational Science</b> The Science Sedimentary Rock Fossils Crustal Changes</p> <p><b>Measuring Time</b> Relative Time Absolute Time</p>	<p><b>905</b></p> <p><b>Body Health I</b></p> <p><b>Microorganisms</b> Development of the Germ Theory Categories of Pathogenic Organisms Characteristics of Infectious Diseases</p> <p><b>Bacterial Infections</b> Digestive Infections Respiratory Infections Nervous Infections</p> <p><b>Viral Infections</b> Common Viral Infections Childhood Viral Infections More Serious Viral Infections</p> <p><b>Protozoan, Rickettsial, and Fungal Infections</b> Protozoan Infections Rickettsial Infections Fungal Infections</p>
<p><b>906</b></p> <p><b>Body Health II</b></p> <p><b>Disease Treatment</b> Body Defense Mechanisms Medical Drugs</p> <p><b>Disease Prevention</b> Environmental Conditions Medical Advances Total Health</p> <p><b>Community Agencies</b> Governmental Agencies Volunteer Groups Medical and Drug Control Organizations</p>	<p><b>907</b></p> <p><b>Astronomy</b></p> <p><b>The Universe</b> Extent of the Universe Constellations</p> <p><b>Telescopes and Optics</b> Image Brightness Types of Telescopes Newer Types of Telescopes</p> <p><b>Space Exploration</b> Requirements for Launching a Satellite Planetary Missions</p>	<p><b>908</b></p> <p><b>Oceanography</b></p> <p><b>History of Oceanography</b> Chronology of Oceanography Techniques for Investigation Major Discoveries Submersible Research</p> <p><b>Geology of the Ocean</b> Geological Structure Results of Profiling Turbidity and Sedimentation World's System of Currents</p> <p><b>Biological, chemical, and Physical Properties</b> Biology of the Ocean Chemistry of the Ocean Physical Properties of the Ocean Power Conversion</p>	<p><b>909</b></p> <p><b>Science and Tomorrow</b></p> <p><b>People and Their Land</b> Ecology Agriculture Waste Population</p> <p><b>People and Their Work Environment</b> Energy Sources Industry Transportation Urbanization</p> <p><b>People and Their New Frontiers</b> Outer Space Inner Space Self-Exploration</p>	<p><b>910</b></p> <p><b>Review</b></p> <p><b>Practical Uses of Measurement</b> The Metric System Weight Versus Mass</p> <p><b>Practical Health</b> Traveling Abroad Camping and Hiking Keeping Personal Health Records</p> <p><b>Practical Geology and Astronomy</b> Upbuilding Versus Erosion The Oceans The Continents Plate Tectonics</p> <p><b>Practical Solutions to Problems</b> Nuclear Power Population Environment</p>



<p><b>1001</b></p> <p><b>Taxonomy: Key to Organization</b></p> <p><b>The History of Taxonomy</b> Biblical Taxonomy Early History of Taxonomy Beginning of Modern Taxonomy</p> <p><b>Binomial Nomenclature</b> Scientific Names Concept of Species Problems in Classifying</p> <p><b>Plant and Animal Classification</b> The Dichotomous Key Plant Characteristics Animal Characteristics Plant Classification Animal Classification Search for a System Classification of Man</p> <p><b>Taxonomy and Origins</b> Artificial and Natural Systems Models of Origin</p>	<p><b>1002</b></p> <p><b>Basis of Life</b></p> <p><b>Molecular Basis of Life</b> Structure of Elements Molecules and Compounds</p> <p><b>Properties of Compounds</b> How Atoms Combine Importance of Inorganic Compounds</p> <p><b>Chemical Reactions</b> Types of Reactions Control of Chemical Reactions</p> <p><b>Organic Compounds</b> Carbohydrates Lipids Proteins Nucleic Acids</p> <p><b>Enzymes</b> Properties of Enzymes Actions of Enzymes</p>	<p><b>1003</b></p> <p><b>Microbiology</b></p> <p><b>The Microscope</b> History of the Microscope Types of Microscopes Techniques of Microscopy</p> <p><b>The Protozoan</b> A Protozoan Culture, Part I: Growth Amoeboid Protozoans Ciliated Protozoans Flagellated Protozoans A Protozoan Culture, Part II: Observation Economic Significance of the Protozoans</p> <p><b>The Algae</b> Varieties Collection and Observations Economic Importance of the Algae</p> <p><b>Other Microorganisms</b> The Fungi The Bacteria The Rickettsias The Viruses</p>	<p><b>1004</b></p> <p><b>Cells</b></p> <p><b>The Cell: An Introduction</b> Theories on the Cell Examination of the Cell</p> <p><b>Cell Design</b> Plasma Membrane Organelles The Nucleus Specialized Features of Plant Cells</p> <p><b>Processes in the Cell</b> Control of Materials Osmosis and Solution Concentration The Flow of Energy Protein Synthesis</p> <p><b>Cells in Organisms</b> Levels of Organization Cell Specialization</p>	<p><b>1005</b></p> <p><b>Plants: Green Factories</b></p> <p><b>How Is a Plant Made?</b> The Plant Cell Parts of the Plant Cell Anatomy and Morphology of the Plant</p> <p><b>How Do Plants Grow?</b> Developmental Morphology Developmental Anatomy</p> <p><b>How Do Plants Work?</b> Food Production Respiration</p> <p><b>How Do Plants Help People?</b> A Good “Friend” Feeding the Hungry</p>
<p><b>1006</b></p> <p><b>Human Anatomy and Physiology</b></p> <p><b>Supply of Needed Materials</b> Digestive System Excretory System Respiratory System Circulatory System</p> <p><b>Body Framework; Reproduction</b> Skeletal System Muscular System Reproductive System</p> <p><b>Body Control, and Interaction with Environment</b> Nervous System Sensory System Endocrine System Immune System and Disease</p>	<p><b>1007</b></p> <p><b>Genetics: God’s Plan for Inheritance</b></p> <p><b>Gregor Mendel’s Experiments</b> Monohybrid Cross Probabilities Cross Predictions Application of Mendelian Genetics</p> <p><b>Chromosome Basis of Heredity</b> Chromosomes and Genes Chromosomes in Meiosis Sex Chromosomes</p> <p><b>Molecular Genetics</b> Genes Genetic Influences</p> <p><b>Human Genetics</b> Method of Study Factors Studied</p>	<p><b>1008</b></p> <p><b>Cell Division and Reproduction</b></p> <p><b>Cell Division</b> Mitosis Meiosis Stages of Mitosis The Control and Rate of Mitosis</p> <p><b>Asexual Reproduction</b> Advantages of Asexual Reproduction Lower Animals Plants The Use of Asexual Reproduction in the Growing of Plants</p> <p><b>Sexual Reproduction</b> Advantages of Sexual Reproduction Fertilization</p> <p><b>Sexual Reproduction in Animals</b> Life Cycles Methods of Fertilization Development</p> <p><b>Sexual Reproduction in Plants</b> Life Cycles Vascular Plants Life Cycles of Ferns and Pines Flowering Plants</p>	<p><b>1009</b></p> <p><b>Ecology, Environment, and the Bible</b></p> <p><b>What Is Ecology?</b> Levels of Organization of Life Biomes and Habitats The Scope of Ecology</p> <p><b>Ecosystems and How They Work</b> Biogeochemical Cycles Food Chains and Food Webs Energy Flow Through Ecosystems</p> <p><b>Environmental Issues</b> Environmental Issues in Spiritual Perspective Developed Countries: Prosperity and Progress Developing Countries: Poverty and Problems Environmental Issues for the Future</p> <p><b>The Environment, the Bible, and You</b> How Should Christians Think About Environmental Issues? What Should Christians Do About Environmental Issues?</p>	<p><b>1010</b></p> <p><b>Biological Origins and the Bible</b></p> <p><b>Introduction</b> Genesis Creation Versus Myths The History of the Origins Issue The Importance of the Origins Issue</p> <p><b>Biological Origins</b> The Origin of Life The Origin of Life’s Major Groups The Origin of Species The Origin of Biological Similarities</p> <p><b>Science, Christianity, and the Bible</b> The Bible and Science Another Look at Evidences Concerning Origins Theistic Evolution—The Great Compromise</p>



<p><b>1101</b></p> <p><b>Estimate and Measurement</b></p> <p><b>Metric Units</b> Length Volume Mass</p> <p><b>Instrumentation</b> Length Volume Mass</p> <p><b>Observation and Hypothesizing</b> Observation Hypothesizing Graphing</p> <p><b>Science Notation</b> Significant Figures Powers of Ten</p> <p><b>Chemistry in Action</b> Production Discovery Product Development Marketing Corporate Management Protection of Inventions Other Positions Some Other Industries Will Your Work Be in Science?</p>	<p><b>1102</b></p> <p><b>Elements, Compounds, and Mixture</b></p> <p><b>Elements</b> Alchemy Symbols Properties</p> <p><b>Compounds</b> Properties Classification</p> <p><b>Mixtures</b> Heterogeneous Homogeneous</p>	<p><b>1103</b></p> <p><b>Gases and Moles</b></p> <p><b>Kinetic Molecular Theory</b> Evidence Characteristics</p> <p><b>Boyle's Law</b> Experimental Evidence Mathematical Evidence</p> <p><b>Charles' Law</b> Experimental Evidence Mathematical Evidence</p> <p><b>Combined Gas Law</b> Development Application</p> <p><b>Moles</b> Avogadro's Hypothesis Avogadro's Number Conservation of Mass</p>	<p><b>1104</b></p> <p><b>Atomic Structure and Periodicity</b></p> <p><b>Contributors to a Concept</b> Democritus John Dalton J. J. Thomson Marie Curie Ernest Rutherford Niels Bohr Erwin Schrodinger James Chadwick</p> <p><b>Modern Atomic Structure</b> Atomic Spectra Bohr Model Modern Model</p> <p><b>Atomic Periodicity</b> Periodic Law Dmitri I. Mendeleev</p> <p><b>Nuclear Reactions</b> Natural Radioactivity Nuclear Energy</p>	<p><b>1105</b></p> <p><b>Chemical Formulas, Bonding, and Molecular Architecture</b></p> <p><b>Chemical Formulas</b> Ion Charge and Column Location Formula Prediction</p> <p><b>Chemical Bonding</b> Electronegativity Ionic Bonds Covalent Bonds Metalic Bonds</p> <p><b>Molecular Shape and Ecectron Distribution</b> Hybridization Polarity</p>
<p><b>1106</b></p> <p><b>Chemical Reactions, Rates, and Equilibrium</b></p> <p><b>Chemical Reactions</b> Detection Energy Representation</p> <p><b>Reaction Rates</b> Rate Variables Reaction Diagrams</p> <p><b>Reaction Equilibriums</b> Equilibrium Mathematics Equilibrium Variables</p>	<p><b>1107</b></p> <p><b>Equilibrium Systems</b></p> <p><b>Solutions</b> Moles Types Characteristics</p> <p><b>Solubility Equilibriums</b> Dissolving and Dissociation Solubility Constants Application</p> <p><b>Acid-Base Equilibriums</b> Acids Bases pH Scale Neutralization</p> <p><b>Redox Equilibriums</b> Oxidation-Reduction Application</p>	<p><b>1108</b></p> <p><b>Carbon Chemistry: Hydrocarbons</b></p> <p><b>Carbon Compounds</b> Classification of Organic Compounds Sources of Organic Compounds</p> <p><b>Carbon Atoms</b> Structure Forms Bonding</p> <p><b>Hydrogen and Carbon</b> Saturated Hydrocarbons Unsaturated Hydrocarbons</p>	<p><b>1109</b></p> <p><b>Carbon Chemistry: Functional Groups</b></p> <p><b>Hydrocarbon Chemistry</b> Saturated Unsaturated</p> <p><b>Oxygen Functional Groups</b> Alcohols Aldehydes, Acids, and Ketones Esters</p> <p><b>Nitrogen Functional Groups</b> Ammonia Derivatives Proteins</p>	<p><b>1110</b></p> <p><b>Chemistry Review</b></p> <p><b>Characteristics of Atoms and Molecules</b> Measurement and Observation Elements, Compounds, and Mixtures Gases and Moles Atomic Structure and Periodicity Chemical Formulas, Bonding, and Molecular Architecture</p> <p><b>Chemical Systems</b> Chemical Reactions, Rates, and Equilibrium Equilibrium Systems</p> <p><b>Organic Chemistry</b> Hydrocarbons Functional Groups</p>

<p><b>1201</b></p> <p><b>Kinematics</b></p> <p><b>Units, Scalars, and Vectors</b> Units Scalars Vectors</p> <p><b>Measurement of Length</b> Distance Displacement</p> <p><b>Rate of Velocity Change</b> Speed Acceleration Acceleration Due To Gravity Free Fall</p> <p><b>Fields and Models</b> Fields Models</p>	<p><b>1202</b></p> <p><b>Dynamics</b></p> <p><b>Newton's First and Second Laws of Motion</b> Newton's First Law of Motion Newton's Second Law of Motion</p> <p><b>Gravity</b> Gravitational Force Gravitational Force Field</p> <p><b>Uniform Circular Motion</b> Centripetal Acceleration Centripetal Force</p> <p><b>Newton's Third Law of Motion</b> Action-Reaction Conservation of Momentum</p> <p><b>Kepler's Laws of Planetary Motion</b> Kepler's First Law of Planetary Motion Kepler's Second Law of Planetary Motion Kepler's Third Law of Planetary Motion</p>	<p><b>1203</b></p> <p><b>Work and Energy</b></p> <p><b>Type and Source of energy</b> Mechanical Energy Forms of Energy</p> <p><b>Conservation of Energy, Power, and Efficiency</b> Conservation of Energy Power Efficiency</p> <p><b>Heat Energy</b> Specific Heat Latent Heat Laws of Thermodynamics</p>	<p><b>1204</b></p> <p><b>Introduction to Waves</b></p> <p><b>Energy Transfer</b> Pulses Periodic Waves</p> <p><b>Wave Phenomena</b> Reflection Refraction Diffraction Interference</p> <p><b>Sound Waves</b> Beats Resonance Doppler Effect Shock Waves The Speed of Sound</p>	<p><b>1205</b></p> <p><b>Light</b></p> <p><b>Speed of Light</b> Speed Properties</p> <p><b>Mirrors and Lenses</b> Mirrors Lenses</p> <p><b>Phenomena and Models</b> Phenomena of Light Models of Light</p>
<p><b>1206</b></p> <p><b>Static Electricity</b></p> <p><b>Electric Charges</b> The Nature of Charges The Transfer of Charges</p> <p><b>Electric Fields</b> Configurations Natural Fields</p> <p><b>Electric Potential</b> Potential and Fields Potential and Energy Examples</p>	<p><b>1207</b></p> <p><b>Current Electricity</b></p> <p><b>Current</b> Concepts Electromotive Force Fluid Flow Electron Flow</p> <p><b>Resistance</b> Resistors Resistivity</p> <p><b>Circuits</b> Ohm's Law Series Circuits Parallel Circuits</p>	<p><b>1208</b></p> <p><b>Magnetism</b></p> <p><b>Fields and Forces</b> Fields Forces</p> <p><b>Electromagnetism</b> The Electromagnetic Field Currents and Magnetism Electromagnetic Induction</p> <p><b>Electron Beams</b> Magnetic Deflection The Cathode-Ray Tube</p>	<p><b>1209</b></p> <p><b>Atomic and Nuclear Physics</b></p> <p><b>Quantum Theory</b> Electromagnetic Radiation Matter Waves Atomic Spectra Bohr Model</p> <p><b>Nuclear Theory</b> Building Blocks of the Nucleus Properties of the Nucleus</p> <p><b>Nuclear Reaction</b> Nuclear Fission Fusion Nuclear Reaction Applications</p>	<p><b>1210</b></p> <p><b>Review</b></p> <p><b>Mechanics</b> Kinematics Dynamics Energy</p> <p><b>Wave Motion</b> Waves Light Sound</p> <p><b>Electricity</b> Sources, Fields, and Forces Circuits</p> <p><b>Modern Physics</b> The Planetary Atom Emission Spectra and Quantized Energy The Bohr Atom Duality Nuclear Energies</p>



# CURRICULUM OVERVIEW

## Social Studies

The social studies curriculum begins with a study of the student's family and neighborhood relationships then expands to include the United States and the world. Special emphasis is placed on God at work in the world and the Christian way of peace and love.

The series develops a system of social values based on God's revealed Word, recognizing the New Testament as God's final revelation to men. The way of salvation through Christ is presented as the only remedy for the sins of mankind, both individually and socially. The spread of the Gospel of salvation is presented as the responsibility of the Christian community.

In this series, textbooks are used (or are being developed) for a number of the grade levels. LightUnits have been developed to be used along with the texts. Reading integration is also a part of the social studies LightUnits in the lower levels.

The 100 and 200 levels are five-LightUnit courses. They are optional in order to give the student more time for Language Arts.

LEVEL	SOCIAL STUDIES
<b>Sunrise 100</b>	(supplemental) Your World
<b>Sunrise 200</b>	(optional) Your Neighborhood
<b>Sunrise 300</b>	World Communities
<b>Sunrise 400</b>	World Geography & Culture
<b>Sunrise 500</b>	North American History and Geography
<b>Sunrise 600</b>	Latin America
<b>Sunrise 700</b>	World History
<b>Sunrise 800</b>	United States History
<b>900</b>	<ul style="list-style-type: none"> <li>• Civics</li> <li>• Careers</li> <li>• World Geography</li> </ul>
<b>1000</b>	World History
<b>1100</b>	United States History
<b>1200</b>	<ul style="list-style-type: none"> <li>• Democracy</li> <li>• Christian Challenges</li> </ul>

CANADIAN SOCIAL STUDIES	
<b>Elem.</b>	<ul style="list-style-type: none"> <li>• History,</li> <li>• Geography,</li> <li>• Government</li> </ul>
<b>700</b>	Through Confederation
<b>800</b>	Confederation to Late 20 <sup>th</sup> Century

<p><b>701</b></p> <p><b>Origins of Civilization</b></p> <p><b>The Beginning of Time</b> Where Did Man Come From? Sin Disrupts God's Creation Civilizations Develop and Scatter Archaeologists Study Ancient Civilizations</p> <p><b>Early Civilizations</b> Scattered People Build Civilizations A Civilization Arises in the Fertile Crescent Sumerians Write Without Words Empires Emerge in Sumer</p> <p><b>Abraham—From Ur to Canaan</b> Sumerians Face Troubled Times Mesopotamians Fear Many Gods God Makes a Covenant With Abraham Famine Forces a Move from Canaan</p>	<p><b>703</b></p> <p><b>Mediterranean Empires</b></p> <p><b>Greece—Empire in the Aegean</b> Civilization Reaches the Aegean The Greeks Face Internal Strife and External Threats Athens Experiences a Golden Age Alexander the Great Builds an Empire</p> <p><b>The Roman Republic</b> Civilization Grows in Italy A Citizen's Assembly Is Created Conquest Enlarges Rome Rome Suffers the Consequences of War</p> <p><b>Jesus Christ, the Messiah</b> The Jews Submit to Greek Rule The Messiah Appears in Israel Sects Develop in Judea Jesus Is Crucified and Resurrected</p>	<p><b>705</b></p> <p><b>The Middle Ages</b></p> <p><b>The Early Middle Ages</b> Frankish Kings Arise The Vikings Raid and Rule Kings Struggle for Control of Britain The Medieval Church Gains Power</p> <p><b>The Byzantine Empire</b> The Orthodox Church Grows A Muslim Empire Arises The Islamic Empire Thrives Byzantine Scholars Influence the West</p> <p><b>The High and Late Middle Ages</b> A New Age Begins Feudalism Prevails for Centuries European Crusades Produce Unforeseen Results Europeans Suffer Times of Crisis</p>	<p><b>707</b></p> <p><b>Enlightenment and Democracy</b></p> <p><b>The Early Modern Period</b> Civilization Is Remade Strong Nations Develop Through Global Trade Catholic Rulers Face Protestants The Early Modern Period Changes Europe</p> <p><b>The Enlightenment</b> Thinking in Europe Changes Troubling Times Erode Faith Enlightenment Ideas Create Doubt Writers Develop New Political Theories</p> <p><b>Demands for Change</b> Monarchs Face Limitations The English Execute Their King Monarchs Suffer Revolt An Enlightened King Attempts Reform</p>	<p><b>709</b></p> <p><b>Imperialism and the World Wars</b></p> <p><b>The Age of Imperialism</b> European Nations Build Empires The British Empire Controls India European Imperialism Circles the Globe The Age of Imperialism Comes to a Close</p> <p><b>The World at War</b> The West Enjoys Prosperity Political Tensions Erupt Into War Europe Fights a Modern War Nations Suffer Postwar Troubles</p> <p><b>At War Again</b> A Dictator Rises in Europe Hitler Propels Europe Into War The War Ends Leaders Seek a Place for Jews</p>
<p><b>702</b></p> <p><b>Empires of the Middle East</b></p> <p><b>Egypt—Empire on the Nile</b> A Kingdom Grows Along the Nile The Old Kingdom Thrives The Middle Kingdom Replaces the Old The New Kingdom Rises and Falls</p> <p><b>Israel—God's Covenant Nation</b> The Israelites Become a People The Israelites Enter the Promised Land Israel Becomes a Mighty Nation The Southern Kingdom Rises and Falls</p> <p><b>The Age of Empire</b> Old Nations Give Way to New The Assyrians Increase Their Empire Nebuchadnezzar Rules Mighty Babylon Wise Rulers Unite the Persian Empire</p>	<p><b>704</b></p> <p><b>The Roman World</b></p> <p><b>Rise of the Roman Empire</b> A Permanent Dictator Rules Rome A New Caesar Takes the Throne Five Descendants of Julius Caesar Lead Rome The Empire Grows Despite Hard Times</p> <p><b>Decline of the Roman Empire</b> Rome Enjoys Prosperity Rome Enters a Long Decline A New Empire Emerges from Rome The Roman Empire Staggers to Its End</p> <p><b>The Early Church</b> The Church Is Founded Jews Rebel Against Rome Christianity Faces New Challenges Spirituality Declines</p>	<p><b>706</b></p> <p><b>Reformation and Renewal</b></p> <p><b>Renaissance and Discovery</b> New Ways of Thinking Develop Innovative Art Styles Emerge Trade and Travel Stimulate Exploration Discovery Brings a Worldwide Exchange</p> <p><b>The Reformation</b> The Church Controls Society Influential Men Spark Reform A Reformation Shakes the Church The Church Undergoes Further Divisions</p> <p><b>The Anabaptist Movement</b> Zwingli Introduces Reforms Reformers Persecute Reformers A Catholic Priest Becomes an Anabaptist Conflict Divides the Anabaptists</p>	<p><b>708</b></p> <p><b>Conquest and Industry</b></p> <p><b>The Age of Revolution</b> A French General Takes Control Europe Wages the Napoleonic Wars Europe Enters the Late Modern Period Romantic Ideals Influence the West</p> <p><b>The Global Growth of Christianity</b> European Churches Change An Evangelical Revival Stirrs the English Church The Great Century of Missions Begins American Churches Experience Further Revival</p> <p><b>The Industrial Revolution</b> A New Age Unfolds The Industrial Revolution Creates Hardships Urban Growth Causes New Issues Innovations Bring Widespread Changes</p>	<p><b>710</b></p> <p><b>Globalization and Technology</b></p> <p><b>The Cold War Era</b> Communism Grows in Europe A Cold War Develops Communist Threats Continue Worldwide Opposition to Communist Rule Spreads</p> <p><b>A Shrinking World</b> Expanding Economies Drive Trade International Trade Expands Military Technology Transforms Society Technology Connects and Divides</p> <p><b>A Changing World</b> Environmental Concerns Increase Oil Dependence Leads to Strife Shifting Populations Produce Strife Christianity Declines in the West</p>

<p><b>801</b> <b>American and European Backgrounds</b></p> <p><b>First Americans</b> Earliest Americans</p> <p><b>Discoverers of America</b> Columbus's Discovery Columbian Exchange</p> <p><b>Europeans' Exploration and Colonization</b> European Explorers Spanish Influence</p> <p><b>English Colonization</b> First English Colonies New England Colonies Southern and Middle Colonies Colonists Evangelize</p>	<p><b>802</b> <b>War, Rebellion, and Independence</b></p> <p><b>English Colony Life</b> Life in the Colonies Life Differs Throughout Colonies Religious Revival in the Colonies</p> <p><b>Britain and France Fight in the New World</b> French and English Take Up Arms French and Indian War</p> <p><b>Colonies Rebel Against England</b> Proclamation of 1763 Revolutionary War</p> <p><b>Independence</b> Early Events of the War Break With Britain Britain's Defeat</p>	<p><b>803</b> <b>Beginnings, Growth, and Change</b></p> <p><b>Articles of Confederation and the Constitution</b> New Nation After Independence Constitution</p> <p><b>New Nation Meets Challenges</b> Washington Administration Federalists and the Adams Administration Jefferson and Madison</p> <p><b>National Conflict</b> Features of the Monroe Years Jackson Changes the Political Scene Democrats and Whigs Compete</p> <p><b>Life in the Early 1800s</b> Industrial Revolution Transportation and Communication Religious Movements, Immigration, and Reform</p>	<p><b>804</b> <b>The Nation Expands</b></p> <p><b>Slavery in America</b> Slaves Come to America Slavery in North America Slaves and Some Whites Attack Slavery</p> <p><b>Europeans and Native Americans Clash</b> Before Indian Removal Jacksonian Era Indian Conflicts in the West</p> <p><b>Westward—Ho!</b> Texas Gains Independence Oregon Joins United States Mexican War and the Gold Rush</p>	<p><b>805</b> <b>The North and South in Conflict</b></p> <p><b>The North and South Disagree</b> Disunion in the Early 1800s Flames of Conflict in the 1850s Events of 1856 to 1860</p> <p><b>The Civil War</b> Lincoln's Election Early Part of the War Tide Turns in Favor of the North Results of the War</p> <p><b>The South Rebuilds</b> Lincoln and Johnson Rebuild the South Radical Republicans Rebuild the South Closing Events of Reconstruction</p>
<p><b>806</b> <b>Growth, Progress, and Change</b></p> <p><b>The Gap in the West Closes</b> Miners and Prospectors Transportation Cattlemen Homesteaders</p> <p><b>Inventions, Business, and Industry</b> Businesses Grow Businesses Change Businesses and Unions</p> <p><b>America Changes in the late 1800s</b> Farming Cities Political Issues Reform and Social Movements</p>	<p><b>807</b> <b>Struggles Within and Without</b></p> <p><b>The Progressive Movement</b> Reforms Reforms Introduced by Roosevelt Democrats Regain the White House</p> <p><b>Progressives Gain and Lose</b> Americans' Lives Change Reform Movements Under President Wilson</p> <p><b>From Isolation to Imperialism</b> United States Seek Territory United States World Influence United States Latin America Influence</p> <p><b>The Great War</b> War in Europe United States Involvement Peace</p>	<p><b>808</b> <b>Boom, Bust, and Battle</b></p> <p><b>The Twenties</b> Problems and Tensions Society Changes Politics Change</p> <p><b>The Great Depression</b> Hoover's Promise President Roosevelt Fights the Depression</p> <p><b>World War II</b> War Begins Response to World Events Allies Defeat Italy and Germany Allies Defeat Japan</p>	<p><b>809</b> <b>Fears Within, Fightings Without</b></p> <p><b>Harry Truman and the Aftermath of the War</b> Aftermath of World War II Postwar Years</p> <p><b>Communism Threatens at Home and Abroad</b> Spread of Communism Communism in Asia Fears of Communism Affect Americans</p> <p><b>The Eisenhower Years</b> America Prospers Civil Rights Movement Makes Progress World Communism</p> <p><b>The Kennedy and Johnson Years</b> Threat of Communism Civil Rights Movement Social Changes</p>	<p><b>810</b> <b>War, Peace, and Prosperity</b></p> <p><b>Communism in Vietnam</b> Kennedy and Johnson Deal With Vietnam President Nixon Gets Out of Vietnam</p> <p><b>The Seventies</b> President Nixon Ford and Carter Presidencies</p> <p><b>The Twentieth Century Ends</b> Reagan Administration Bush Administration Clinton Presidency</p> <p><b>The Turn of the Century Brings Changes</b> Bush, Clinton, and Obama</p>

<p><b>901</b></p> <p><b>The Heritage of the United States</b></p> <p><b>Historical and Political Backgrounds</b>            American Colonies            Major Conflicts            Acquisitions and Annexations            Independence and Political Parties</p> <p><b>Freedom Backgrounds</b>            Freedom Principles            Freedom Pioneers</p> <p><b>Society Backgrounds</b>            Immigration            Technology            Education            Social Reforms            Christianity</p>	<p><b>902</b></p> <p><b>U.S. Government</b></p> <p><b>U.S. Government: Ideals</b>            Purpose of the National Government            Constitutional Democracy            Limited Government</p> <p><b>U.S. Government: Development</b>            Colonial Development of Government            Articles of Confederation            The Constitution of the United States</p> <p><b>The Legislative Branch: Congress</b>            The Branches of Congress            The Members of Congress            The Organization of Congress            The Duties and Powers of Congress            The Movement of a Bill Through Congress</p> <p><b>The Executive Branch: The President</b>            The President of the United States            The Powers of the President            The Vice-President of the U. S.            The Cabinet and Executive Departments</p> <p><b>The Judicial Branch</b>            Federal Court System: Formation and Jurisdiction            Federal Court System: Structure            The Supreme Court            The Special-Authority Courts</p>	<p><b>903</b></p> <p><b>State and Local Government</b></p> <p><b>State Government in a Democracy</b>            Powers of State Government            Responsibilities of State Government            State Constitutions            Rights and Responsibilities as Citizens</p> <p><b>Country and Township Government</b>            Development of Counties and Townships            Responsibilities to the State            Duties of County and Township Government            Variety of Forms and Powers</p> <p><b>City Governments</b>            Functions of City Governments            Types of City Governments and Their Problems            Our Changing Cities</p>	<p><b>904</b></p> <p><b>Planning a Lifework</b></p> <p><b>Recognizing God's Directives</b>            Glorifying God            Serving Others            Avoiding Entanglement            Following Love and Peace</p> <p><b>Recognizing God's Design</b>            Concerning Authority            Concerning Male and Female            Concerning Personal Uniqueness            Concerning Brotherhood</p> <p><b>Choosing God's Will</b>            Understanding Job Opportunities            Discerning Job Opportunities            Applying for a Job</p>	<p><b>905</b></p> <p><b>Citizenship</b></p> <p><b>Citizenship Principles</b>            Heavenly Citizenship            Earthly Mission            Love and Peace            Separation of Church and State</p> <p><b>Citizenship Privileges</b>            Acquiring Citizenship            Constitutional Rights</p> <p><b>Citizenship Responsibilities</b>            Prayer            Honor and Obedience            Testimony</p>
<p><b>906</b></p> <p><b>The Earth and Man</b></p> <p><b>The Earth Is Man's Home</b>            Man Inhabits the Earth            Man Survives the Flood            Man Covers the Earth            Man Begins History</p> <p><b>The Earth Is Developed by Man</b>            Development of Civilizations            Development of Water            Transportation Systems            Development of Resources            Development of Cities</p> <p><b>The Earth Has a Future</b>            World Leaders Pursue Peace            Divine Judgment Brings Peace</p>	<p><b>907</b></p> <p><b>Regions of the World</b></p> <p><b>Looking at the Regions of North America, Latin America</b>            North America            Latin America</p> <p><b>Looking at the Regions of Europe and Africa</b>            Europe            Africa</p> <p><b>Looking at the Regions of Asia</b>            Asia</p> <p><b>Looking at the South Pacific and Reflecting on the Regions</b>            The South Pacific            The World</p>	<p><b>908</b></p> <p><b>Man and His Environment</b></p> <p><b>Man and His Physical Environment</b>            Ecological Hazards            Health Hazards            Natural Resource Shortages</p> <p><b>Man and His Social Environment</b>            Changes Within the Federal Government            Labor Market Program            Family Pressures</p> <p><b>Man and His Responsibilities to His Environment</b>            Conservation and Restoration            Social Improvement</p>	<p><b>909</b></p> <p><b>The Tools of the Geographer</b></p> <p><b>The Earth in Model Form: the Globe</b>            The Invention of the Globe            The Features of the Globe            The Instruction of the Globe</p> <p><b>The Earth in Picture Form: Maps</b>            Reading and Interpreting Maps            Types of Maps            Uses of Maps</p> <p><b>The Earth in Symbol Form: Graphs and Charts</b>            Graphs            Charts            Other Resource Material</p>	<p><b>910</b></p> <p><b>Man in a Changing World</b></p> <p><b>Democratic Government</b>            Historical Development in the U.S.            National Government            State and Local Government</p> <p><b>World Geography</b>            Studying Geography            Regions            Civilizations            Revolutions</p> <p><b>Living Responsibility on the Earth</b>            Citizenship            Environment            Lifework</p>



<p><b>1001</b></p> <p><b>Ancient Civilization</b></p> <p><b>Meaning and Origin of Civilization</b>  Meaning of Term  Origin of Man  The Fall of Man  The Flood From God  The Origin of Civilization</p> <p><b>Early Egyptian Civilization</b>  Geography  History  Economy and Government  Letters and Art  Religion</p> <p><b>Assyrian and Babylonian Civilization</b>  Old Babylonian Empire  Assyria  The Neo-Babylonian Empire</p> <p><b>Persian Civilization</b>  History  Religion  Administration</p>	<p><b>1002</b></p> <p><b>Ancient Civilization</b></p> <p><b>The Far East</b>  India  China</p> <p><b>The Greek Civilization</b>  Geography  History  Culture</p> <p><b>The Roman Empire</b>  History  Christianity  Culture</p>	<p><b>1003</b></p> <p><b>The Medieval World</b></p> <p><b>Introduction to the Middle Ages</b>  The Roman Empire  Roman Culture  Christianity and the Empire</p> <p><b>The Early Middle Ages</b>  Barbarian Invasions  Eastern Empire  The Catholic Church  Arab Invasions</p> <p><b>The Middle Ages in Transition</b>  The Continent  New Invasions  England  The Byzantine Empire  The Church  The Islamic Empire</p> <p><b>The Hight Middle Ages</b>  The Setting  Rise of the Monarchies  The Church  The Decline of the Byzantine Empire  Other World Powers</p>	<p><b>1004</b></p> <p><b>Renaissance and Reformation</b></p> <p><b>The Renaissance</b>  Changes in Government  Developments in Art  Changes in Literature and Thought  Advances in Science</p> <p><b>The Reformation</b>  The Reformation in Europe  The Reformation in England  Reform Within the Catholic Church  Wars of Religion</p>	<p><b>1005</b></p> <p><b>Growth of World Empires</b></p> <p><b>England and France</b>  Absolutism in England  Absolutism in France  Mercantilism</p> <p><b>Portugal and Spain</b>  Portugal  Spain</p> <p><b>Austria, Germany, Italy, and the Ottoman Empire</b>  Austria and Germany  Italy  Ottoman Empire</p>
<p><b>1006</b></p> <p><b>The Age of Struggle</b></p> <p><b>The Struggle for Parliamentary Government</b>  Divine Right  People's Choice</p> <p><b>The Struggle for Dominion</b>  War of the League of Augsburg  War of the Spanish Succession  War of the Austrian Succession  The Lull Before the Storm  The Seven Years' War</p> <p><b>The Struggle for Independence</b>  British Background  American Frontier</p> <p><b>The Struggle for Reform</b>  The Monarchy  New Leadership</p>	<p><b>1007</b></p> <p><b>The Industrial Revolution</b></p> <p><b>Industrial Revolution in England</b>  Sparks of Preparation  Fires of Continuation</p> <p><b>Industrial Revolution in the United States</b>  United States Industrial Climate  Rise of Industrial Progress  Modern Industrial Developments</p> <p><b>Industrial Revolution in Canada</b>  Pioneer and Economic Expansion  A Forerunner in Modernization and Technology</p> <p><b>Social Changes of the Industrial Revolution</b>  Negative Drawbacks  Positive Contribution</p>	<p><b>1008</b></p> <p><b>Two World Wars</b></p> <p><b>World War I</b>  Mounting Tensions  Erupting Conflicts</p> <p><b>Peace Returns</b>  Peace Initiatives  Power Quests</p> <p><b>World War II</b>  Battlefronts  Peace Efforts</p>	<p><b>1009</b></p> <p><b>Our Contemporary World</b></p> <p><b>Cold War</b>  Ideological Conflict  Korean Conflict  Cuban Crisis  Vietnam War  Afghanistan Takeover  Struggles Within Communism</p> <p><b>Conflicts of Independence and Religion</b>  Quest for Political Independence  Quest for Racial and Religious Freedom</p> <p><b>Cooperative Coexistence</b>  Regions of the World  Major World Organizations  Current World Concerns</p> <p><b>Country Charts</b></p>	<p><b>1010</b></p> <p><b>Ancient Times to the Present</b></p> <p><b>Ancient Civilization and Medieval Times</b>  Hebrews  Egyptians  Babylonians  Chinese  Greeks  Romans  Ancient Cultures  Medieval Times: Invasions  Medieval Times: Feudalism  Medieval Catholicism  The Medieval Church</p> <p><b>Renaissance</b>  Politics  Arts and Sciences  Reformation  Absolutism</p> <p><b>The Modern World</b>  Revolutions  Wars  Current Events</p>

<p><b>1101</b></p> <p><b>Foundations of American Democracy</b></p> <p><b>Foundation of American Democracy</b></p> <p>Revival of Trade and Commerce</p> <p>Spread of New Ideas</p> <p>Rise of National States</p> <p>Development of Religious Changes</p> <p><b>Virginia and the New England Colonies</b></p> <p>Jamestown</p> <p>Reformation and Further Colonization</p> <p>The Pilgrims Settled in Plymouth</p> <p>The Puritans Settled in Massachusetts</p> <p>Rhode Island Provided Religious Freedom</p> <p>Thomas Hooker Founded Connecticut</p> <p>New Hampshire Received a Charter</p> <p>New England Gained Dominion</p> <p><b>Middle and Southern Colonies</b></p> <p>Maryland Was a Haven for Catholics</p> <p>New Netherland Became New York</p> <p>Quakers Sought Refuge in New Jersey</p> <p>Penn's Woods Was a Haven for Quakers</p> <p>Delaware Received a Charter</p> <p>The Carolinas Began Slowly</p> <p>Georgia—a Philanthropic Colony</p> <p>Population Continued to Grow</p> <p>Living Conditions Were Varied</p> <p><b>1106</b></p> <p><b>United States Involvement at Home and Abroad</b></p> <p><b>Surge of the United States Industry</b></p> <p>Industrial Birth</p> <p>Economic Expansion</p> <p><b>Change of Industrial Lifestyle</b></p> <p>Industrial Trends</p> <p>Worker Treadmill</p> <p><b>Isolationism of the U.S.</b></p> <p>Isolationistic Foreign Policy</p> <p>International Realism</p> <p><b>March Into Conflict</b></p> <p>Causes</p> <p>Factions</p>	<p><b>1102</b></p> <p><b>Development of Constitutional Government</b></p> <p><b>Relations With England</b></p> <p>Trade Regulations</p> <p>French and Indian War</p> <p>Colonial Resistance</p> <p><b>The Revolutionary War</b></p> <p>Second Continental Congress</p> <p>Opposition and Aid</p> <p>Important Campaigns</p> <p>Winter at Valley Forge</p> <p>War in the South</p> <p>War in the West</p> <p>American Navy</p> <p>Spies, Traitors, and Nonassociators</p> <p>Battle of Yorktown</p> <p><b>Birth of a Nation</b></p> <p>Colonial Peace</p> <p>Articles of Confederation</p> <p>Constitution of the United States</p> <p><b>1107</b></p> <p><b>The Depression Years</b></p> <p><b>The Great War and its Aftermath</b></p> <p>The First Global Conflict</p> <p>A Plan for Peace</p> <p><b>The Golden Twenties</b></p> <p>Changing Postwar Attitudes</p> <p>Changing Postwar Lifestyles</p> <p><b>The Great Depression</b></p> <p>Progress Before the Depression</p> <p>Conditions During the Depression</p> <p><b>The New Deal</b></p> <p>The Founder of the New Deal</p> <p>The Program of the New Deal</p>	<p><b>1103</b></p> <p><b>National Expansion</b></p> <p><b>Ship of State</b></p> <p>Federal Government</p> <p>First Political Parties</p> <p>Foreign Affairs</p> <p>Federalist President</p> <p><b>Revolution of 1800 and War of 1812</b></p> <p>Revolution of 1800</p> <p>War of 1812</p> <p><b>Nationalism and Sectionalism</b></p> <p>Nationalism and Monroe Administration</p> <p>Sectionalism and the Jackson Administration</p> <p><b>1108</b></p> <p><b>War and Nonresistant Christians</b></p> <p><b>World War II</b></p> <p>Causes of World War II</p> <p>The War in Europe and the Pacific</p> <p><b>Cold War Era</b></p> <p>Cold War Becomes Hot</p> <p>Eisenhower Administration</p> <p><b>“Resist Not Evil”; Conscientious Objectors in American History</b></p> <p>Colonial Days</p> <p>Revolutionary War</p> <p>Between Wars</p> <p>The Civil War</p> <p>The World Wars and After</p> <p>Biblical Nonresistance and Humanistic Pacifism</p>	<p><b>1104</b></p> <p><b>A Nation Divided</b></p> <p><b>The Emergence of Sectionalism</b></p> <p>The Issues of Division</p> <p>The Division of Land</p> <p>The Division of People</p> <p><b>Civil War</b></p> <p>The Economics of Slavery</p> <p>The Social Conditions of Slavery</p> <p>The Politics of Slavery</p> <p><b>1109</b></p> <p><b>Contemporary America I</b></p> <p><b>President Kennedy and the New Frontier</b></p> <p><b>President Johnson and the Great Society</b></p> <p><b>President Nixon and the New Internationalism</b></p>	<p><b>1105</b></p> <p><b>A Nation Divided and United</b></p> <p><b>Regionalism</b></p> <p>Regional Issues</p> <p>Regional Expansion</p> <p>Regional Lifestyles</p> <p><b>Civil War</b></p> <p>The Division</p> <p>The Antagonists</p> <p>The Union Blockade</p> <p>The Hostilities: Initial Phase</p> <p>Christians in a Troubled Time</p> <p>The Hostilities: Final Phase</p> <p><b>Reconstruction</b></p> <p>Northern Influences</p> <p>Southern Reactions</p> <p><b>1110</b></p> <p><b>Contemporary America II</b></p> <p><b>President Ford and a Time to Heal</b></p> <p><b>President Carter and a Principled Populism</b></p> <p><b>President Reagan and the Reagan Revolution</b></p> <p><b>President Bush and the New World Order</b></p> <p><b>President Clinton and Domestic Innovation</b></p>
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<p><b>1201</b></p> <p><b>Personal and Social Challenges</b></p> <p><b>Self: Maturity, Mental Health, and Career</b></p> <p>Personality</p> <p>Potentiality</p> <p><b>Family</b></p> <p>The Holy Institution</p> <p>The Devoid Substitution</p> <p><b>Education</b></p> <p>Secular Education</p> <p>Scriptural Education</p> <p><b>Discrimination</b></p> <p>Constitutional Rights</p> <p>Covenantal Rights</p>	<p><b>1202</b></p> <p><b>American Political Challenges</b></p> <p><b>The American Party System</b></p> <p>Importance of Political Parties</p> <p>Development of the Major Parties in the United States</p> <p><b>The Structure of the Party System</b></p> <p>Functions of Political Parties</p> <p>Organization of Political Parties</p> <p>Importance of Politics</p> <p><b>Nominations and Elections</b></p> <p>Nominating Candidates for Office</p> <p>Voting in Elections</p> <p>Making Voting More Effective</p> <p><b>Public Opinion and Government</b></p> <p>The Nature of Public Opinion</p> <p>The Opinion Makers</p>	<p><b>1203</b></p> <p><b>Economic Challenges</b></p> <p><b>The Market Economy: Part One</b></p> <p>Definition</p> <p>Development</p> <p><b>The Market Economy: Part Two</b></p> <p>Scarcity</p> <p>Production</p> <p>Capital</p> <p>Division of Labor</p> <p>Profit Maximization</p> <p>Utility</p> <p>Price, Demand, and Supply</p> <p><b>The Problems of Business</b></p> <p>Management</p> <p>Labor</p> <p>Relation to Government</p>	<p><b>1204</b></p> <p><b>International Relations</b></p> <p><b>Approaches to International Relations</b></p> <p>The Present Situation</p> <p>The Traditional Approach to International Relations</p> <p>The Assumptions of Traditional International Relations</p> <p>Present Alternatives in International Relations</p> <p><b>Changes in International Relations</b></p> <p>Changes in Foreign Policy</p> <p>Changes in the International System</p> <p>Changes in International Values</p>	<p><b>1205</b></p> <p><b>Man and His Role in the Environment</b></p> <p><b>Man and His Environment</b></p> <p>Ecology</p> <p>Pollution: Where and How It Occurs</p> <p><b>Energy</b></p> <p>Early History of Energy</p> <p>Sources of Fossil Fuels</p> <p>Energy Measurements, Laws, and Forms</p> <p>Problems of Fossil-Fuel Consumption</p> <p>Political Ramifications of Energy</p> <p><b>Conservation and Alternate Energy</b></p> <p>Methods of Conserving</p> <p>Alternate Energy Resources</p>
<p><b>1206</b></p> <p><b>The Christian and Authority</b></p> <p><b>The Christian's Responsibility to Biblical Authority</b></p> <p>Freedom From Bondage</p> <p>Liberation by Faith</p> <p>Responsibility to Serve</p> <p><b>The Christian's Responsibility to Social Authority</b></p> <p>Family, the Foundation</p> <p>Church, the Channel</p> <p>World, Our Work</p> <p><b>The Christian's Responsibility to Government Authority</b></p> <p>Requirement to Obey</p> <p>Biblical Principles Regarding: Governmental Authority, Functions of Government, Believer's Responsibility to Governments</p> <p>Implications and Illustrations for Christians in Today's World</p>	<p><b>1207</b></p> <p><b>A History of the Jewish Peoples</b></p> <p><b>Jewish Survival in the Early Christian World</b></p> <p>Dispersion</p> <p>Rationale of Anti-Semitism</p> <p>Inception of Religious Anti-Semitism</p> <p><b>Jewish Life in the Middle Ages</b></p> <p>Charges Against the Jews</p> <p>Spanish Inquisition</p> <p>Unity of the Jews</p> <p><b>Jewish Growth, Persecution, and Reform</b></p> <p>Jewish Economic Ascendancy</p> <p>Advent of Hebrew Phobia</p> <p><b>Jewish Reaction and Results</b></p> <p>Reform and Return</p> <p>Division and Reconciliation</p> <p>Latter Days</p> <p>Christians and Jews</p>	<p><b>1208</b></p> <p><b>The Role of the Family in Today's Society</b></p> <p><b>The Family</b></p> <p>The Nature of the Family</p> <p>The Composition of the Family</p> <p><b>The Extended Family and the Community</b></p> <p>Components of the Extended Family</p> <p>The Family in the Community</p> <p><b>The Requirements and Responsibilities of a New Family</b></p> <p>Knowing Yourself</p> <p>Understanding Your Partner</p> <p>Being Responsible</p> <p>Parenting</p>	<p><b>1209</b></p> <p><b>The Societal, Economic, and Political Challenges of Man</b></p> <p><b>History and the Challenges of Change in Society</b></p> <p>Definition of History</p> <p>Permanence and Change in Society</p> <p>Implications of History</p> <p>Early Society's Challenges</p> <p>The Effects of New Inventions and Technology on Society</p> <p>The Effects of Transportation and Communication on Society</p> <p><b>The Challenges of Economic Growth</b></p> <p>Economic Development</p> <p>Medium of Exchange</p> <p>Resources, Transportation, and Markets</p> <p>The Significance of Labor and Trade on the Economy</p> <p><b>The Challenges of Political Change</b></p> <p>Government in Society</p> <p>Beginnings of Modern Democracy</p> <p>Types of Government</p> <p>Modern Political Activity</p> <p>Trends in Political Change</p>	<p><b>1210</b></p> <p><b>Review</b></p> <p><b>American Challenges</b></p> <p>Personal and Social</p> <p>Political</p> <p>Economic</p> <p><b>World Challenges</b></p> <p>International Relations</p> <p>Environmental Problems</p> <p><b>Judaean-Christian Foundations</b></p> <p>Christian Authority</p> <p>Jewish Authority</p> <p><b>Man and Society</b></p> <p>The Family</p> <p>Society</p>

# SUNRISE CANADIAN SOCIAL STUDIES 700 Based on the text *A GOODLY HERITAGE*

<p><b>701</b> <b>Native</b></p> <p><b>Section 1</b> North America Before the Europeans Important Maps of Canada</p> <p><b>Section 2</b> The Indians of the Eastern Woodlands Indians of the Plains The Pacific Coast Natives Natives of the Arctic Native People Project Europeans Affect the Natives</p> <p><b>Section 3</b> Vikings and Explorers Jacques Cartier Explores the St. Lawrence</p> <p>LightUnit 705 and the Teacher's Material contain ideas for projects that students may do to earn five more LightUnits' worth of credit.</p>	<p><b>702</b> <b>French Settlement and the British Colonies</b></p> <p><b>Section 1</b> France and the New World Acadia The Struggle to Establish New France New France: The Struggle to Survive</p> <p><b>Section 2</b> The Jesuit Missions The Iriquois Invasion The English in Newfoundland</p> <p><b>Section 3</b> Virginia and the New England Colonies The Middle and Southern Colonies Pennsylvania Project</p>	<p><b>703</b> <b>The British Conquest of New France and the American Revolution</b></p> <p><b>Section 1</b> New France Becomes Stronger Life on a Seigneury Furs and Explorations New France Grows and Conflicts With Britain</p> <p><b>Section 2</b> The Expulsion of the Acadians Conflict on the Ohio Frontier The End of New France</p> <p><b>Section 3</b> Causes of the American Revolution The Declaration of Independence Results of the American Revolution The Loyalists</p>	<p><b>704</b> <b>Conflicts That Influenced Pre-Confederation Canada</b></p> <p><b>Section 1</b> Mennonite Life in Colonial America The Mennonites and the Indians Mennonites and the American Revolution</p> <p><b>Section 2</b> Western Fur Trade Some Causes of the War of 1812 More Causes of the War of 1812 The War of 1812</p> <p><b>Section 3</b> The Slavery Question Drift Toward Disunion The Civil War Results of the Civil War</p>	<p><b>705</b> <b>Confederation</b></p> <p><b>Section 1</b> Colonial Government Political Reasons for Unrest Economic Reasons for Unrest Reformers in Upper and Lower Canada</p> <p><b>Section 2</b> Rebellion of 1837 Lord Durham's Report Responsible Government The Expansion of the United States</p> <p><b>Section 3</b> Reasons for Confederation The Fathers of Confederation British North America Act</p>
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# SUNRISE CANADIAN SOCIAL STUDIES 800 Based on the text *PLEASANT PLACES*

<p style="text-align: center;"><b>801</b></p> <p style="text-align: center;"><b>Early Settlements in Upper Canada</b></p> <p><b>Section 1</b> Waves of Immigration The Germans in North America Waterloo County's Beginnings</p> <p><b>Section 2</b> Village Life Project: Local Town or County Pattern of Settlement The Canada Company Changing Times</p> <p><b>Section 3</b> Pioneer Homes Pioneer Food Social Life and Medical Services</p> <p style="text-align: center; margin-top: 200px;">LightUnit 805 and the Teacher's Material contain ideas for projects that students may do to earn five more LightUnits' worth of credit.</p>	<p style="text-align: center;"><b>802</b></p> <p style="text-align: center;"><b>Pioneer Life in Upper Canada</b></p> <p><b>Section 1</b> Religion in Pioneer Days Rural Government Early Industries History of Education</p> <p><b>Section 2</b> Water Transportation Early Road Transportation Means of Transportation by Road Rail Transportation and Mail Service</p> <p><b>Section 3</b> Early Farming Era of Diversification Era of Specialization</p>	<p style="text-align: center;"><b>803</b></p> <p style="text-align: center;"><b>Canada Grows; World War I</b></p> <p><b>Section 1</b> Conservative Government Immigration and the West Canadian Government Under Mackenzie and Macdonald Troubles in the West</p> <p><b>Section 2</b> Prosperity in Canada Background and Setting for World War I Causes of World War I World War I Attempts to Establish Peace</p> <p><b>Section 3</b> Canada During the War Canadian Mennonites During the War</p>	<p style="text-align: center;"><b>804</b></p> <p style="text-align: center;"><b>Booming Twenties, Difficult Thirties; War Years</b></p> <p><b>Section 1</b> The Aftermath of World War I The Booming Twenties The Great Depression Effects on Government</p> <p><b>Section 2</b> Background of World War II The Collapse of Europe War Around the World World War II Ends</p> <p><b>Section 3</b> The Cold War Begins Canada and World War II COs and World War II</p>	<p style="text-align: center;"><b>805</b></p> <p style="text-align: center;"><b>Modern Canada</b></p> <p><b>Section 1</b> Changes in Communication and Power The Space Age Transportation Building Projects and Other Facts</p> <p><b>Section 2</b> Changes in Politics Quebec and Separation Canada Since 1970</p> <p><b>Section 3</b> Russian Mennonite Emigration to Canada Migrations to Canada After the Russian Immigration Amish Emigration to Ontario Hutterite History and Settlement in Canada</p>
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# ELECTIVE COURSES

The following high school elective courses are available. One-credit courses have ten study units, and one-half credit courses have five. All courses are one credit unless otherwise specified.

**Accounting** 11<sup>th</sup> Edition ©2019 (Grade 11 or 12). Multicolumn journal accounting in three cycles: 1) Accounting for a Service Business Organized as a Proprietorship, 2) Accounting for a Merchandising Business Organized as a Partnership, and 3) Accounting for a Merchandising Business Organized as a Corporation. (One credit)

**Apologia Advanced Biology** The Human Body 2<sup>nd</sup> edition ©2013 (Grade 12) This advanced biology course covers both the anatomy and physiology of each of the human body's organ systems for those students who have successfully completed high school biology and chemistry. (One credit)

**Apologia Science** Alternate science courses for Grades 8-12. We recommend using Physical Science, Grade 9; Biology, Grade 10; Physics, Grade 12.

**Auto Fundamentals** 12<sup>th</sup> Edition ©2020 (Grade 11 or above). This course covers auto design, construction, and operation of automotive systems. Auto systems are taught by first explaining the principle of each and then describing the parts that make them up. After completing the course, students will have a good understanding of how each automotive system functions. (One credit)

**Auto Upkeep** 4<sup>th</sup> Edition ©2018 (Grade 9 or above). *Auto Upkeep* presents the information needed to purchase a vehicle and perform basic maintenance. The format is easy to follow with hundreds of detailed pictures and drawings. It gives an overview of all the main vehicle systems and also covers basic tools, repair facilities, roadside emergencies, and hybrid vehicles. (One-half credit)

**Berean Builders Science** (Chemistry 11) *Discovering Design with Chemistry* ©2015 (Grade 11 or above). Alternate course for chemistry. (One-credit.

**Carpentry** 7<sup>th</sup> Edition ©2013 (Grade 10 or above). *Carpentry* covers safety and accident prevention, building materials, construction lumber, hand and power tools, insulation, hardware, fasteners and adhesives, and concrete and forms building. Hundreds of illustrations show the accepted tools, materials, and practices. Information is given on how to use each tool on the job. The power tool coverage reflects actual work conditions. The use of newer materials such as metals and vinyl is covered. (One credit)

**Charting a Course in Your Youth** (Grade 9 or above) This course, based on the book *Charting a Course in Your Youth* by Gary Miller, discusses the vision, commitment, and disciplined management necessary to build the Kingdom of God. (One-half credit)

**Christian Ethics for YOUTH** (Grade 10 or above). This course explores God's wisdom from the Book of Proverbs. It discusses the source of wisdom and its benefits, contrasts between those who accept and those who reject God's ways, and emphasizes ethics for the student's daily life. It investigates the circumstances and temptations that draw us away from God and test our faithfulness. God's solutions and strategies are topically arranged to help the serious student achieve and maintain a victorious Christian life. (One-half credit)

**Computer Basics, Sunrise Edition** (Grade 9 or above). Gives students a foundation for learning computer applications. A computer is not needed for the course, though having one available would be very beneficial to the student. This course provides a basic history of computers and describes how computers work. It also deals with computer software including word processing, databases, spreadsheets, desktop publishing, and more. There is information on computers in the workplace and choosing a computer and software. (One-half credit)

**Computer Service and Repair** 5<sup>th</sup> Edition ©2021 (Grade 10 or above). This course teaches fundamental knowledge in computer technology. Learn how to upgrade, configure, troubleshoot, and network personal computers. After taking this course, students will have the foundation necessary for pursuing more technical areas involving computers. (One credit)

**Consumer Mathematics** (Grade 9 or above). This course trains the student in practical daily applications of mathematical skills. It may be used as a supplement to a mathematics program or as a part of the basic mathematics program. The course involves the student in new and creative skills and previously learned skills.

The student is given examples to help him understand and use each mathematical skill in various consumer problems. These problems deal with family finances, occupations, business, and transportation. (One credit)

**Exploring Agriscience** 5<sup>th</sup> Edition ©2018 (Grade 9 or above). This course introduces students to the world of agriculture. It covers a wide range of topics, from forestry and landscaping to biotechnology and aquaculture. It helps students understand the most significant components of agriculture and the importance of agriculture to society and teaches many interesting facts about plants and animals without overloading students with details. (Although based on a middle school text, we give a high school credit for this course.)

**Exploring Woodworking** 8<sup>th</sup> Edition ©2014 (Grade 9 or above) This basic course introduces practical woodworking skills and tools. The textbook discusses types and uses of wood; safety; hand tools and portable and stationary power tools; manufacturing and careers in woodworking; and project planning, construction, assembly, preparation for finishing, and finishing. For the last unit, the student designs and constructs a project. (One credit)

**Home Economics I, Sunrise Edition** (Grade 9 or above). This course introduces high school girls to the skills and knowledge that godly wives, mothers, and homemakers need. Many hands-on learning opportunities provide practice in the skills being taught.

The first four LightUnits cover food preparation—from basic nutritional information and smart shopping techniques to good kitchen arrangement and putting food on the table.

LightUnits 5, 6, and 7 teach sewing—from the basics of using the sewing machine to the details of actually sewing clothing.

LightUnit 8 discusses the godly home—its purpose, how to decorate it, keep it clean and clutter-free.

LightUnit 9 describes the various stages of child growth—physical, mental, and spiritual—from birth to the junior years.

LightUnit 10 turns the focus to the student herself, giving her guidance in becoming a godly woman—understanding herself, God's plan for her body, her relationship with God, friends and friendships, modesty, singlehood, and Christian courtship. (One credit)

**Home Economics II, Sunrise Edition** (Grade 10 or above). We are planning for this to be a one-credit course. Four LightUnits, *Baking Breads, Baking Pies and Cakes, Gardening and Food Preservation*, and *ABCs of Money Management*, are available now. Other topics will likely include sewing for babies and children, and tailoring.

**Introductory Horticulture** 7<sup>th</sup> Edition ©2007 (Grade 9 or above). This course introduces the student to all aspects of horticulture, including how plants are named, parts of plants, plant reproduction, what is required for good growth, various methods of plant propagation, greenhouse management and crops, container-grown plants; using plants in the landscape, pest control, lawn and turf management, the vegetable garden, and the small fruit garden. (One credit)

**Keyboarding & Information Processing** 6<sup>th</sup> Edition ©2000 (Grade 9 or above). This course enables a student to acquire the skills necessary for both personal and business typing. It covers techniques for keyboard operation, arranging copy, manuscripts, personal and business letters, outlines, and reports. Computer-related skills are included. Students are encouraged to spend as much time as their schedules allow for practice in order to master typing. (One credit)

**Mathematics Plus** ©2016 (Grade 9 or above). This course includes very involved practical problems related to agriculture, woodworking, and construction. Experienced knowledge of geometric formulas required. Only highly motivated and mathematically literate students can work through this course independently. (One credit)

**Modern Residential Wiring** 12<sup>th</sup> Edition ©2021 (Grade 10 or above). This course provides the basic information needed for installing electrical wiring in homes or in light industrial applications. It introduces electrical energy fundamentals, circuit theory and components, electricians' tools, grounding essentials, types and components of wiring systems, device wiring, reading prints, electrical remodeling, and more. It is based on the 2008 National Electric Code, which is recommended but not required for the course. (One credit)

Students may earn an additional elective credit by working with an electrician in conjunction with the course.

**Music.** The eight workbooks in this music curriculum introduce and drill the rudiments of music in graduated levels of difficulty. The workbooks are intended to provide supportive drill and workbook activity through the first eight years of school. The first books are written for students in the first years of school, and *Book Eight* aims at the junior high or early high school student. The workbooks are not bound to certain levels, however, so that a fifth grade student may begin in *Book Two* without feeling he is working below his level.

The workbooks provide knowledge of the major scale, the staff, pitch, time values, key signatures, time signatures, and musical terms and signs. Books *Seven* and *Eight* introduce intervals and a few basic chords used in four-part harmony. The workbooks use shaped notes in order to encourage a cappella congregational music where all (not only music specialists) join in the singing.

High school students may earn one-half credit in music upon completion of music books 5-8 and the *Music in Biblical Perspective* study unit.

**Pilgrim's Progress** (Grade 9 or above). John Bunyan's allegory of the Christian life, written from a prison cell, is one of the greatest masterpieces of literature. Making his way to the Celestial City, the pilgrim Christian traverses the hill Difficulty, the Valley of the Shadow of Death, and Vanity Fair; and encounters characters such as Hopeful, Mr. Worldly Wiseman, Mercy, and the Giant Despair. (One-half credit)

**Practical Math** 4<sup>th</sup> Edition ©2015 (Grade 9 or above). This course provides a comprehensive survey of all basic, pre-algebra math topics. Most of the word problems use realistic situations the student may encounter. The clear explanations and sample problems make this a good choice for the student who feels weak in some math skills or who wants a thorough review before taking a higher math course. (One credit)

**Print Reading for Construction** 6<sup>th</sup> Edition ©2013 (Grade 10 or above) Teaches basic and advanced concepts needed to interpret construction prints. The textbook is consumable and comes with a large print folder containing 140 foldout prints (17 in x 22 in) for both residential and commercial construction. Provides a hands-on experience that will benefit students considering a career in construction. (One credit)

**Recordkeeping for Christian Stewardship** (Grade 9 or above) Personal recordkeeping covers topics such as personal banking, budgeting, understanding credit, and taxes. Business recordkeeping includes topics such as cash receipts and records as well as inventory, invoicing and pay-roll. Business accounting teaches double entry accounting, and the use of ledgers, journals, and financial statements. Each section ends with a project that reviews the concepts taught. The examples given are in an Anabaptist context. (One credit)

**Small Engine and Equipment Maintenance** ©2012 (Grade 9 or above). Teaches the maintenance practices required to maintain residential and commercial power equipment. The course is designed to support entry-level school programs and operators of small engines. It covers tools and safety, history of small engines, small engine fundamentals, and more. Hands-on activities include repair projects at three levels of difficulty. (One credit)

**Small Gas Engines** 12<sup>th</sup> edition ©2023 (Grade 10 or above) Provides useful information about small gas engines and their applications. Contains material on the construction, operation, lubrication, maintenance, troubleshooting, repairing and rebuilding both two- and four-stroke engines. Applications include lawn mowers, tillers, chainsaws, trimmers, and more. Gives advice on job opportunities and certification. (One credit)

**Spanish A** ©2008 (Grade 7 or above). Teaches the basic rules of verb conjugation (infinitive, present, past, future tenses, and participles), word order, grammatical rules, pronouns (subject, direct, and indirect object) and some common words so that students can begin to form sentences and express themselves in Spanish. The emphasis is on learning how the language works, not on merely memorizing words and phrases. (One-half credit)

**Spanish B** ©2011 (Grade 7 or above). Builds on Spanish A, adding to the students' Spanish vocabulary and teaching more verb conjugation (imperfect tense, past participles, reflexives, commands, irregular forms), telling time, making comparisons, using passive voice, and using possessive and demonstrative pronouns. The course includes dialogues and stories and translation exercises. (One-half credit)

**Technical Sketching and Drawing** ©2008 (Grade 9 or above). Teaches both basic and advanced skills needed to communicate technical information. The course contains step-by-step drawing instructions and technical tips, enabling hands-on application of the concepts presented. Covers drawing fundamentals, instrument drawings and techniques, pictorial drawings, geometric constructions, dimensioning and tolerancing, prints, and more. (One credit)

<p><b>Part 1: Accounting for a Service Business Organized as a Proprietorship</b></p> <p><b>LightUnit 1</b></p> <p>Chapter 1: Starting a Proprietorship: Changes That Affect the Accounting Equation</p> <p>Chapter 2: Analyzing Transactions into Debit and Credit Parts</p>	<p><b>LightUnit 2</b></p> <p>Chapter 3: Journalizing Transactions</p> <p>Chapter 4: Posting to a General Ledger</p> <p>Chapter 5: Cash Control Systems</p>	<p><b>LightUnit 3</b></p> <p>Chapter 6: Work Sheet and Adjusting Entries for a Service Business</p> <p>Chapter 7: Financial Statements for a Proprietorship</p> <p>Chapter 8: Recording Closing Entries and Preparing a Post-Closing Trial Balance for a Service Business</p>	<p><b>Part 2: Accounting for a Merchandising Business Organized as a Corporation</b></p> <p><b>LightUnit 4</b></p> <p>Chapter 9: Accounting for Purchases and Cash Payments</p> <p>Chapter 10: Accounting for Sales and Cash Receipts</p> <p>Chapter 11: Accounting for Transactions Using a General Journal</p>	<p><b>LightUnit 5</b></p> <p>Chapter 12: Preparing Payroll Records</p> <p>Chapter 13: Accounting for Payroll and Payroll Taxes</p>
<p><b>LightUnit 6</b></p> <p>Chapter 14: Accounting for Uncollectible Accounts Receivable</p> <p>Chapter 15: Preparing Adjusting Entries and a Trial Balance</p>	<p><b>LightUnit 7</b></p> <p>Chapter 16: Financial Statements and Closing Entries for a Corporation</p> <p>Chapter 17: Financial Statement Analysis</p>	<p><b>Part 3: Accounting for a Merchandising Business Organized as a Corporation—Adjustments and Valuation</b></p> <p><b>LightUnit 8</b></p> <p>Chapter 18: Acquiring Capital for Growth and Development</p> <p>Chapter 19: Accounting for Plant Assets, Depreciation, and Intangible Assets</p> <p>Chapter 20: Accounting for Inventory</p>	<p><b>LightUnit 9</b></p> <p>Chapter 21: Accounting for Accruals, Deferrals, and Reversing Entries</p> <p>Chapter 22: End-of-Fiscal-Period Work for a Corporation</p> <p>Part 4: Additional Accounting Procedures</p>	<p><b>LightUnit 10</b></p> <p>Chapter 23: Accounting for Partnerships</p> <p>Chapter 24: Recording International and Internet Sales</p>



<b>General Science 3<sup>rd</sup> Edition</b>	<b>Physical Science 3<sup>rd</sup> Edition</b>	<b>Biology 3<sup>rd</sup> Edition</b>	<b>Physics 2<sup>nd</sup> Edition</b>	<b>Advanced Biology 2<sup>nd</sup> Edition</b>
<p>Module 1: The History of Science— Search for the Truth</p> <p>Module 2: Scientific Inquiry and the Scientific Method</p> <p>Module 3: Documenting and Interpreting Experimental Results</p> <p>Module 4: Scientific Analysis and History</p> <p>Module 5: Earth Science—Astronomy</p> <p>Module 6: Earth Science—Geology and Paleontology</p> <p>Module 7: Earth Science— Meteorology and Oceanography</p> <p>Module 8: General Chemistry</p> <p>Module 9: General Physics</p> <p>Module 10: Life Science</p> <p>Module 11: General Biology</p> <p>Module 12: Marine Science</p> <p>Module 13: Environmental Science</p> <p>Module 14: Science and Creation</p>	<p>Module 1: Science – the Basics</p> <p>Module 2: Chemistry Properties and States of Matter</p> <p>Module 3: Chemistry – Atomic Structure and the Periodic Table</p> <p>Module 4: Chemistry – Chemical Bonds</p> <p>Module 5: Chemistry – Reactions and Energy</p> <p>Module 6: Physics – Motion</p> <p>Module 7: Physics – Forces</p> <p>Module 8: Physics – Energy</p> <p>Module 9: Physics – Waves and Sounds</p> <p>Module 10: Physics – Light</p> <p>Module 11: Physics – Electricity and Magnetism</p> <p>Module 12: Earth Science – Our Earth</p> <p>Module 13: Earth Science – Our Atmosphere and Beyond</p> <p>Module 14: Chemistry and Physics in the Life Sciences</p> <p>Module 15: Physical Science Research</p>	<p>Module 1: The Science of Life</p> <p>Module 2: The Chemistry of Life</p> <p>Module 3: Ecology</p> <p>Module 4: Cell Structure and Function</p> <p>Module 5: Cellular Energy</p> <p>Module 6: DNA, Proteins, and the Cell Cycle</p> <p>Module 7: Genetics</p> <p>Module 8: Evolution</p> <p>Module 9: Prokaryotes and Viruses</p> <p>Module 10: Protists and Fungi</p> <p>Module 11: Plant Diversity and Reproduction</p> <p>Module 12: Plant Structure and Function</p> <p>Module 13: Animals – Invertebrates Part 1</p> <p>Module 14: Animals – Invertebrates Part 2</p> <p>Module 15: Animals – Chordates Part 1</p> <p>Module 16: Animals – Chordates Part 2</p>	<p>Module 1: Motion in One Dimension</p> <p>Module 2: One-Dimensional Motion Equations and Free Fall</p> <p>Module 3: Two-Dimensional Vectors</p> <p>Module 4: Motion in Two Dimensions</p> <p>Module 5: Newton's Laws</p> <p>Module 6: Applications of Newton's Second Law</p> <p>Module 7: Uniform Circular Motion and Gravity</p> <p>Module 8: Work and Energy</p> <p>Module 9: Momentum</p> <p>Module 10: Periodic Motion</p> <p>Module 11: Waves</p> <p>Module 12: Geometric Optics</p> <p>Module 13: Coulomb's Law and the Electric Field</p> <p>Module 14: Electric Potential</p> <p>Module 15: Electric Currents</p> <p>Module 16: Magnetism</p>	<p>Module 1: Introduction to Anatomy and Physiology</p> <p>Module 2: Histology: The Study of Tissues</p> <p>Module 3: The Integumentary and Skeletal Systems</p> <p>Module 4: The Skeletal System Histology and Movement</p> <p>Module 5: The Muscular System Histology and Physiology</p> <p>Module 6: The Skeletal Muscle System</p> <p>Module 7: The Nervous System</p> <p>Module 8: The Central Nervous System</p> <p>Module 9: The Peripheral Nervous System</p> <p>Module 10: The Endocrine System</p> <p>Module 11: The Cardiovascular System</p> <p>Module 12: The Lymphatic System</p> <p>Module 13: The Digestive System</p> <p>Module 14: The Respiratory System</p> <p>Module 15: The Urinary System</p> <p>Module 16: The Reproductive Systems</p>

## AUTO FUNDAMENTALS, 12<sup>th</sup> Edition 2020

<b>Introduction LightUnit 1</b> Chapter 1: Career Opportunities Chapter 2: Safety Chapter 3: Automotive Tools and Test Equipment	<b>LightUnit 2</b> Chapter 4: Building an Engine Chapter 5: Design, Construction, and Application of Engine Components Chapter 6: Engine Classification, Parts Identification	<b>LightUnit 3</b> Chapter 7: Engine Size and Performance Measurements Chapter 8: Electrical System Fundamentals Chapter 9: Computer Systems	<b>LightUnit 4</b> Chapter 10: Ignition Systems Chapter 11: Fuel Injection Systems Chapter 12: Fuel and Air Supply Systems	<b>LightUnit 5</b> Chapter 13: Cooling Systems Chapter 14: Lubrication Systems Chapter 15: Exhaust Systems
<b>LightUnit 6</b> Chapter 16: Emission Controls Chapter 17: Charging and Starting Systems Chapter 18: Chassis Electrical	<b>LightUnit 7</b> Chapter 19: Engine Clutches Chapter 20: Manual Transmissions and Transaxles Chapter 21: Automatic Transmissions and Transaxles	<b>LightUnit 8</b> Chapter 22: Axles and Drives Chapter 23: Four-Wheel Drive Chapter 24: Brakes	<b>LightUnit 9</b> Chapter 25: Suspension Systems Chapter 26: Steering Systems Chapter 27: Wheels and Tires	<b>LightUnit 10</b> Chapter 28: Wheel Alignment Chapter 29: Air Conditioning and Heating

## AUTO UPKEEP, 4<sup>th</sup> Edition 2018

<b>LightUnit 1</b> Introduction and How Cars Work Buying an Automobile Automotive Expenses Repair Facilities	<b>LightUnit 2</b> Safety Around the Automobile Tools and Equipment Auto Care and Cleaning Fluid Level Check	<b>LightUnit 3</b> Electrical System Lubrication System Fuel System Cooling System and Climate Control	<b>LightUnit 4</b> Ignition System Suspension, Steering, and Tires Braking System Drivetrain	<b>LightUnit 5</b> Exhaust and Emission System Alternative Fuels and Designs Automotive Accessories Common Problems and Roadside Emergencies
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## BEREAN BUILDERS SCIENCE Alternate Science—Chemistry

Chapter 1: Measuring Up Chapter 2: What's the Matter? Chapter 3: Making Sense of Atoms and Elements Chapter 4: The Modern View of Atoms and Their Chemistry	Chapter 5: Covalent Compounds and their Molecular Geometry Chapter 6: Physical and Chemical Change Chapter 7: Stoichiometry	Chapter 8: Still More on Stoichiometry Chapter 9: Chemists Have Solutions Chapter 10: It's a Gas	Chapter 11: Some Pretty Basic (and Acidic) Chemicals Chapter 12: Reduction and Oxidation Chapter 13: The Heat Is On	Chapter 14: Thermodynamics Chapter 15: Kinetics Chapter 16: Chemical Equilibrium
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<p><b>LightUnit 1</b></p> <p><b>Carpentry and Construction</b> Types of construction The building trades</p> <p><b>Construction Materials</b> The nature of wood Lumber Engineered wood products Concrete Fastening systems</p>	<p><b>LightUnit 2</b></p> <p><b>Hand Tools</b> Measuring and layout tools Fastening and prying tools Sawing and cutting tools Boring and clamping tools Smoothing tools</p> <p><b>Power Tools</b> Portable power saws Stationary power saws Portable power drills and screw-drivers Portable power planes, routers, and sanders Pneumatic and power-actuated tools Welding and metal-cutting equipment</p>	<p><b>LightUnit 3</b></p> <p><b>Construction Equipment, Job Site Safety, and Working Conditions</b> Scaffolds, personal fall-arrest systems, and ladders Construction equipment Job site safety and working conditions</p> <p><b>Building Design and Printreading</b> Building design, plans, and specifications Understanding the language of prints Plot plans Foundation plans Floor plans Exterior elevations Section views Detail and framing plans Door, window, and finish schedules Building codes, zoning, permits, and inspections</p>	<p><b>LightUnit 4</b></p> <p><b>Survey Instruments and Operations</b> Builder's levels, automatic levels, and transit-levels Laser levels and total station instruments</p> <p><b>Foundation and Outdoor Slab Construction</b> Building site and foundation layout Types of foundations Forming methods and materials Foundation designs—form construction Stairway and outdoor slab forms Foundation moisture control and insect prevention</p>	<p><b>LightUnit 5</b></p> <p><b>Floor, Wall, and Ceiling Frame Construction</b> Floor framing Wall framing Ceiling framing Metal framing</p>
<p><b>LightUnit 6</b></p> <p><b>Roof Frame Construction</b> Basic roof types and roof theory Gable, gambrel, and shed roofs Hip roofs Intersecting roofs Roof trusses</p>	<p><b>LightUnit 7</b></p> <p><b>Energy Conservation: Energy Auditing and Construction Methods</b> Energy auditing and building science Thermal insulation and other insulating methods Sound control Alternate energy systems</p> <p><b>Exterior Finish</b> Roof finish Exterior door and window frames Exterior wall finishes Decks and fencing</p>	<p><b>LightUnit 8</b></p> <p><b>Interior Finish</b> Interior wall and ceiling finish Interior doors and hardware Cabinet and countertop installation Interior trim Finish flooring</p>	<p><b>LightUnit 9</b></p> <p><b>Stairway Construction</b> Types of stairways Stairway construction</p> <p><b>Post-and-Beam Construction</b> Post-and-beam construction Mass timber construction</p>	<p><b>LightUnit 10</b></p> <p><b>Heavy Concrete Construction</b> Foundation design for heavy construction Commercial concrete construction formwork Concrete placement for commercial construction Precast concrete systems</p>

## CHARTING A COURSE IN YOUR YOUTH

LightUnit 1	LightUnit 2	LightUnit 3	LightUnit 4	LightUnit 5
<p>Textbook Introduction</p> <p>Direction in Your Youth</p> <p>Flying Free, Part 1</p> <p>Flying Free, Part 2</p> <p>The Importance of Vision, Part 1</p> <p>The Importance of Vision, Part 2</p> <p>“Choose You This Day,” Part 1</p> <p>“Choose You This Day,” Part 2</p> <p>Biblical Stewardship—The Missing Ingredient? Part 1</p> <p>Biblical Stewardship—The Missing Ingredient? Part 2</p> <p>The Dutch Mennonites—A Lesson from History</p> <p>Stufflust</p>	<p>Do I View Money and Possessions as Jesus Did? Part 1</p> <p>Do I View Money and Possessions as Jesus Did? Part 2</p> <p>Developing a Biblical Value System, Part 1</p> <p>Developing a Biblical Value System, Part 2</p> <p>A Steward? What’s That? Part 1</p> <p>A Steward? What’s That? Part 2</p> <p>Developing a Kingdom-Focused Vision, Part 1</p> <p>Developing a Kingdom-Focused Vision, Part 2</p> <p>Whose Kingdom Are You Building? Part 1</p> <p>Whose Kingdom Are You Building? Part 2</p> <p>Frank, the Wise Investor, Part 1</p> <p>Frank, the Wise Investor, Part 2</p>	<p>Putting Your Vision Into Action, Part 1</p> <p>Putting Your Vision Into Action, Part 2</p> <p>Diligence in the Workplace, Part 1</p> <p>Diligence in the Workplace, Part 2</p> <p>An Employee for God’s Honor</p> <p>Developing Personal Discipline, Part 1</p> <p>Developing Personal Discipline, Part 2</p> <p>Who Needs a Budget?</p> <p>Setting Up a Budget for Youth</p> <p>Setting Up a Budget for a Home</p> <p>Choosing a Career, Part 1</p> <p>Choosing a Career, Part 2</p>	<p>Money and Marriage, Part 1</p> <p>Money and Marriage, Part 2</p> <p>Single Life—Serving Without Distraction, Part 1</p> <p>Single Life—Serving Without Distraction, Part 2</p> <p>Investing in the Kingdom, Part 1</p> <p>Investing in the Kingdom, Part 2</p> <p>Crosswinds, Part 1</p> <p>Crosswinds, Part 2</p> <p>“They That Will Be Rich . . .” Part 1</p> <p>“They That Will Be Rich . . .” Part 2</p> <p>Planning for a Business</p> <p>A Kingdom-Focused Business</p>	<p>Consider Before Committing, Part 1</p> <p>Consider Before Committing, Part 2</p> <p>Selecting a Kingdom Chariot, Part 1</p> <p>Selecting a Kingdom Chariot, Part 2</p> <p>Consumer Credit and the Kingdom, Part 1</p> <p>Consumer Credit and the Kingdom, Part 2</p> <p>Private Loans</p> <p>Saving and Serving—A Window of Opportunity, Part 1</p> <p>Saving and Serving—A Window of Opportunity, Part 2</p> <p>Materialism—Satan’s Sneaky Substitute, Part 1</p> <p>Materialism—Satan’s Sneaky Substitute, Part 2</p> <p>Review and Evaluation</p>

## CHRISTIAN ETHICS FOR YOUTH

<b>Unit 1</b> <b>The Virtues of Wisdom</b>	<b>Unit 2</b> <b>Choosing Your Path</b>	<b>Unit 3</b> <b>Christian Ethics for Daily Living</b>	<b>Unit 4</b> <b>Ethical Problems and Solutions</b>	<b>Unit 5</b> <b>Wisdom's Ways</b>
Why Christian Ethics? Introducing Proverbs Proverbs—Source of Godly Wisdom The Beginning of Wisdom Wellspring of Wisdom Wisdom Helps Me Hear Wisdom Helps Me Trust Wisdom Helps Me Be Humble Wisdom Helps Me Obey Wisdom Helps Me Turn From Evil	Where the Paths Diverge Peace or Conflict Way of the Fool Ways of the Wicked Path of the Righteous Blessings or Curses The Choice Is Yours	The Tongue of the Foolish The Tongue of the Wise The Foolishness of Anger A Life of Peace and Happiness Dutifully Diligent Lethargy of Laziness Paradox of Poverty Wise and Wealthy	Gratitude Versus Greed Humility Versus Pride Respect or Rebellion Thoughts—Index to Character Triumph of Temperance Strategy of the Strange Woman Keep Thyself Pure The Ideal Individual	Friendship and Fellowship Criteria for Counsel Humanity in Human Relationships Parable of the Manners Seven Pillars of Wisdom Happy and Healthy or Sad and Sick? Six Fours of Proverbs 30 God's Wisdom and Ways To Be or Not to Be Topical Proverbs

## COMPUTER BASICS Sunrise Edition

<b>LightUnit 1</b> <b>Introduction to the Computer Age</b>	<b>LightUnit 2</b> <b>Software for Hardware</b>	<b>LightUnit 3</b> <b>Using Computer Software (Part I)</b>	<b>LightUnit 4</b> <b>Using Computer Software (Part II)</b>	<b>LightUnit 5</b> <b>Computers and the Workplace</b>
<b>Computer Background</b> What Is a Computer? Advantages and Limitations of a Computer Parts of a Computer Storage Devices <b>Development of Computers</b> Basic Beginnings Since the 1930's Computers and People <b>How Computers Affect Everyday Life</b> How Computers Affect Home and Farm How Computers Affect Communities and Government How Computers Affect Education How Computers Affect Business, Industry, and Travel How Computers Affect Travel and Health Care	<b>Binary Number Basics</b> Base Ten and Base Two Converting From Base Ten to Base Two How Computers Use Binary for Input, Output, and Storage <b>How Software Works</b> Programming History Syntax Software Diversity Producing Software Variable and Constants Arithmetic and Relational Operators Logical Operators Programming Structures Modules and Documentation Debugging and Upgrades	<b>Introduction</b> Which Software? Using Windows <b>Word Processing Software</b> Why Use Word Processing Software? Editing Formatting Mail Merge <b>Spreadsheet Software</b> Why Use Spreadsheet Software? Entering, Editing, and Formatting Data Formulas Functions A Spreadsheet Example: Graphs Using a Spreadsheet as a Database	<b>Database Software</b> Why Use It? Structure Adding and Editing Records Sorts, Queries, and Reports <b>Other Software</b> Accounting Software Desktop Publishing Software Internet and E-mail Software Presentation and Voice Recognition Software File Management Software <b>Networks and Peripherals</b> Networks Printers and Scanners Modems and Faxes	<b>Work and the Computer</b> Medical Use of the Computer Business Use of the Computer Industrial Use of the Computer Computer Jobs Safety, Security, and Ethics Software Needs Hardware Needs Getting Information <b>Reviewing This Course —</b> LightUnits 1-4

<b>LightUnit 1</b> Introduction to a Typical PC Operating Systems Cloud Computing	<b>LightUnit 2</b> Motherboards Central Processing Unit (CPU) Power Supplies	<b>LightUnit 3</b> Memory Input Devices Video Systems Graphic Coding	<b>LightUnit 4</b> Audio Systems Magnetic and Solid-State Storage Devices Optical Storage Technology	<b>LightUnit 5</b> Printers Laptops and Mobile Devices
<b>LightUnit 6</b> Modems and Transceivers Physical Security and Authentication Security Applications and Malware	<b>LightUnit 7</b> PC Troubleshooting Data Recovery Introduction to Networking	<b>LightUnit 8</b> Network Communication, Media, and Tools Network Administration	<b>LightUnit 9</b> Wide Area Network (WAN) Small-Office/Home-Office (SOHO) Networking	<b>LightUnit 10</b> Customer Support, Communication, and Professionalism CompTIA A+ Certification Exams Preparation  Employment and Advanced Education

# CONSUMER MATHEMATICS

<p><b>LightUnit 1</b> Creative Arithmetic</p> <p><b>Basic Arithmetic Skills</b> Addition Subtraction Multiplication Division</p> <p><b>Mental Search Skills</b> Puzzles Factors Prime Numbers</p> <p><b>Creative Manipulation Skills</b> Addition and Subtraction Multiplication Division Mental Imagery</p>	<p><b>LightUnit 2</b> Fractions, Decimals, and Percent</p> <p><b>Fractions</b> Terminology Skills Consumer Applications</p> <p><b>Decimals</b> Terminology Skills Consumer Applications</p> <p><b>Percent</b> Decimal Fractions Consumer Applications</p>	<p><b>LightUnit 3</b> Family Finances 1</p> <p><b>Income</b> Salary Wages Commission Self-Employment</p> <p><b>Taxes</b> Income FICA Miscellaneous</p> <p><b>Budgets</b> Planning the Budget Working the Budget</p> <p><b>Buying</b> Sales Prices Real Estate Advertisements Food Buying Credit Buying</p>	<p><b>LightUnit 4</b> Family Finances 2</p> <p><b>Insurance</b> Life Insurance Automobile Insurance Other Insurance</p> <p><b>Banking</b> Your Money Their Money Other Services</p> <p><b>Financial Planning</b> Making Investments Disposing of an Estate</p>	<p><b>LightUnit 5</b> Construction and Building Trades</p> <p><b>Measure Systems</b> Metric System Conversion Procedures</p> <p><b>Area Computations and Applications</b> Plane Figures With Straight Boundaries Plane Figures With Curved Boundaries Area Applications</p> <p><b>Volume Computations and Applications</b> Solid Figures With Plane Boundaries Solid Figures With Curved Boundaries</p>
<p><b>LightUnit 6</b> Service Occupations</p> <p><b>Financial Transactions</b> Cash Transactions Involving Change Sales Tax</p> <p><b>Data Interpretations</b> Tabular Data Interpretation Line-Graph Analysis Bar-Graph Analysis Facility Capacity Estimation</p> <p><b>Service Occupations</b> Food Services Personal Appearance Services Prices for Services Rendered</p>	<p><b>LightUnit 7</b> Transportation</p> <p><b>Financing and Operating an Automobile</b> Finance Charges Automobile Operating Costs Insurance Cost Comparisons</p> <p><b>Transportation and Travel</b> Time, Distance, and Rate Time Zone Adjustments</p> <p><b>Currency Exchange Rates and Travel Cost Comparisons</b> Currency Exchange Rates Travel Cost–Benefit Comparisons</p>	<p><b>LightUnit 8</b> Business Services</p> <p><b>Financial Records: Part I</b> Balance Sheet Cash Budget</p> <p><b>Financial Records: Part II</b> Bank Statement Reconciliation Payroll Deductions</p> <p><b>Business Operations</b> Pricing Considerations Terms of Credit Markups, Markdowns, and Discounts</p>	<p><b>LightUnit 9</b> Occupational Diagrams</p> <p><b>Scale Drawings</b> Reviewing Mathematical Operations Choosing Scales Reading Maps Reading Scale Drawings</p> <p><b>Informal Geometry</b> Angles Polygon Construction Inscribing Regular Polygons</p> <p><b>House Plans</b> Diagramming House Plans Furnishings Cost-Saving Guidelines</p>	<p><b>LightUnit 10</b> Review</p> <p><b>Mathematical Operations</b> Fractions, Decimals, and Percentages Ratios and Proportions Angles, Perpendiculars, and Polygons Plane Geometric Figures with Curved Boundaries Solid Geometric Figures Metric Conversion</p> <p><b>Family Finances</b> Income Taxes Credit Buying Family Financial Records</p> <p><b>Occupational Services</b> Insurance Banking Transportation and Travel Business Trades and Services Architecture and Interior Decorating</p>



<p><b>LightUnit 1</b></p> <p><b>The World of Agriculture and the History of Agriculture</b></p> <p><b>The World of Agriculture</b>  Science and agriculture  Growing plants  The animal industry  Physical science in agriculture  Agricultural exports and imports  Distribution</p> <p><b>The History of Agriculture</b>  American agriculture  King cotton  The cattle industry  Crop production  Scientific research  Changes in agriculture</p>	<p><b>LightUnit 3</b></p> <p><b>Floriculture; Nursery Production; Landscaping</b></p> <p><b>Floriculture</b>  International aspect  National aspect  Plants for florists  Cut-flower production  Flower arrangements</p> <p><b>Nursery Production</b>  Growing media  Growing areas  Outside growing areas  Mist areas  Propagation  Plant production</p> <p><b>Landscaping</b>  Designing the landscape  Plant materials  Phases of landscape development  Interiorscaping</p>	<p><b>LightUnit 5</b></p> <p><b>Forest Science; Protecting the Environment; Organic Agriculture</b></p> <p><b>Forest Science</b>  The natural forest  Forest succession  The forest ecosystem  Wood fiber production  Tree farms</p> <p><b>Protecting the Environment</b>  Pesticides  Water Pollution  Soil Erosion  Nitrate Pollution  Recycling  Wetlands</p> <p><b>Organic Agriculture</b>  The production process  Fertilizers  Insect control  Organic animal agriculture  Criticisms of organic production</p>	<p><b>LightUnit 7</b></p> <p><b>The Poultry Industry; Aquaculture</b></p> <p><b>The Poultry Industries</b>  The broiler industry  The layer industry  Turkey production  Other poultry</p> <p><b>The Science of Aquaculture</b>  Catfish production  Cool-water fish  Growing crustaceans  Ornamental fish</p>	<p><b>LightUnit 9</b></p> <p><b>Ethical Treatment of Animals; Hand Tools; Small Engines</b></p> <p><b>The Ethical Treatment of Animals</b>  Animal welfare  Animal rights activists</p> <p><b>Selecting and Using Hand Tools</b>  Simple machines  Woodworking tools  Measuring and marking tools</p> <p><b>Small Engine Operation</b>  Small engine safety  Operating principles of small engines  The four-stroke cycle engine  The two-stroke cycle engine  Comparing four- and two- stroke cycle engines  Diesel engines  Engine systems</p>
<p><b>LightUnit 2</b></p> <p><b>Soil; Plant Structures and Uses; Pests</b></p> <p><b>Soil: The Origin of Life</b>  Organic soils  Inorganic soils  Water-deposited soil  Soil deposited by wind  Soil texture and soil pH  Soil horizons  The soil ecosystem  Plant life  Microorganisms</p> <p><b>Plant Structures and Their Uses</b>  Stems  Leaves  Flowers  Seeds  Roots</p> <p><b>Agricultural Pests</b>  Insects  Weeds  Wildlife as pests  Genetic engineering</p>	<p><b>LightUnit 4</b></p> <p><b>Fruit and Nut Production; Row Crops</b></p> <p><b>Fruit and Nut Production</b>  Pome fruits  Apple production  Stone fruits  Citrus fruit  Nut production</p> <p><b>Row Crops</b>  Grain crops  Oil crops  Fiber crops</p>	<p><b>LightUnit 6</b></p> <p><b>The Livestock Industry; The Dairy Industry</b></p> <p><b>The Livestock Industry</b>  The meat industry  The horse industry  Small animals</p> <p><b>The Dairy Industry</b>  Milk production  Cheese  Yogurt</p>	<p><b>LightUnit 8</b></p> <p><b>Urban Agriculture; Companion Animals; Preserving Our Food Supply</b></p> <p><b>Urban Agriculture</b>  The rising popularity of urban agriculture  Urban challenges  Urban resources  Features of the urban garden  Food forests  Livestock in the city  Community gardens  School gardens</p> <p><b>Companion Animals</b>  Health benefits  Service animals  Diseases and afflictions  Industry  Health care  Responsible ownership</p> <p><b>Preserving Our Food Supply</b>  Methods of preserving foods  Food safety</p>	<p><b>LightUnit 10</b></p> <p><b>Biofuels; Biotechnology; The Future of Agriculture; Agricultural Careers</b></p> <p><b>Biofuels</b>  Ethanol  Biodiesel  Biomass  Methane  Concerns</p> <p><b>Biotechnology: The Future of Agriculture</b>  Biotechnology  Careers in agriscience</p> <p><b>Careers in Agricultural Science</b>  Plant science  Animal science  Food science  Natural resources  Agricultural research</p>

<p><b>LightUnit 1</b></p> <p>Materials in Woodworking</p> <p>Wood in Our Environment</p> <p>The Lumber Industry</p> <p>Woods: Kinds, Uses, and Identification</p> <p>Math Skills</p> <p>Numbers and Quantity</p> <p>Measurement</p> <p>Geometry</p>	<p><b>LightUnit 2</b></p> <p>Woodworking Safety</p> <p>General Safety</p> <p>Hand and Power Tool Safety</p> <p>Chemical and Fire Safety</p> <p>Project Selection and Planning</p> <p>Selecting a Project</p> <p>Planning Your Project</p>	<p><b>LightUnit 3</b></p> <p>Hand Tools</p> <p>Measuring and Layout Tools</p> <p>Handsaws</p> <p>Hand Planes</p> <p>Shaping Tools</p>	<p><b>LightUnit 4</b></p> <p>Portable Power Tools</p> <p>Portable Electric Drills</p> <p>Portable Circular Saws and Power Miter Saws</p> <p>Portable Saber Saws</p> <p>Portable Routers</p> <p>Biscuit Joiners</p> <p>Portable Planers</p> <p>Portable Sanders</p>	<p><b>LightUnit 5</b></p> <p>Power Woodworking Machines</p> <p>Table Saw</p> <p>Band Saw</p> <p>Scroll Saw</p> <p>Radial Arm Saw</p> <p>Drill Press</p>
<p><b>LightUnit 6</b></p> <p>Power Woodworking Machines</p> <p>Jointer</p> <p>Planer/Surfacer</p> <p>Wood Lathe</p> <p>Shaper</p> <p>Belt, Disc, Spindle, and Drum Sanders</p>	<p><b>LightUnit 7</b></p> <p>Project Construction and Assembly</p> <p>Wood Joints</p> <p>Adhesives</p> <p>Clamps</p> <p>Mechanical Fasteners</p> <p>Laminating and Bending Wood</p> <p>Application of Veneers and Plastic Laminates</p>	<p><b>LightUnit 8</b></p> <p>Preparation for Finishing</p> <p>Removing Glue and Repairing Defects</p> <p>Smoothing Wood by Scraping</p> <p>Sanding</p> <p>Wood Finishing and Hardware</p> <p>Supplies and Equipment</p> <p>Stains, Sealers, and Fillers</p> <p>Finishing Techniques</p> <p>Hardware</p>	<p><b>LightUnit 9</b></p> <p>Woodworking Manufacturing</p> <p>Automated Manufacturing Processes</p> <p>Entrepreneurship</p> <p>Setting Up and Managing a Manufacturing Enterprise</p> <p>Careers in Woodworking Industries and Related Areas</p>	<p><b>LightUnit 10</b></p> <p>Woodworking Project</p>

<p><b>LightUnit 1</b></p> <p><b>Introduction to the Kitchen</b></p> <p><b>Getting Acquainted with the Kitchen</b>  Kitchen Safety  Killers in the Kitchen: Kitchen First Aid  Major and Small Kitchen Appliances  Small Kitchen Tools</p> <p><b>Preparing for Success With Recipes</b>  Common Cooking Terms  Common Abbreviations; Equivalents  Calculating Equivalents  Measuring Accurately</p> <p><b>Practicing New Skills</b>  Preparing Several Food Dishes From Recipes</p>	<p><b>LightUnit 2</b></p> <p><b>Nutrition and Food Preparation</b></p> <p><b>Understanding Nutrition</b>  Nutrients; Carbohydrates  Proteins; Fats  Vitamins; Minerals  Water; Nutrient Density  Calories and You</p> <p><b>The MyPlate Diagram—A Basic Plan for Good Health</b>  Comparing Foods  Vegetables  Fruits  Grains: Breads, Cereals, Rice, and Pasta  Protein Foods: Meats and More  Dairy: Milk, Yogurt, and Cheese  Fats, Oils, and Sweets</p> <p><b>Appendixes</b>  Vitamins  Minerals  Nutritive Values of Selected North American Foods</p>	<p><b>LightUnit 3</b></p> <p><b>Food Shopping and Kitchen Organization</b></p> <p><b>Shopping for Food</b>  Who Gets Your Food Dollars?  Be Aware of Hidden Costs  Stretching Your Food Dollars  Plan Ahead</p> <p><b>More About Shopping for Food</b>  Be a Savvy Shopper  Types of Food Stores  Make a Shopping Plan</p> <p><b>Efficient Kitchen Organization</b>  Organizing the Kitchen  Preparing, Serving, Cleaning</p>	<p><b>LightUnit 4</b></p> <p><b>Meal Planning, Preparation, and Presentation</b></p> <p><b>Planning Menus</b>  A Balanced Menu  Planning Menus  Plan a Menu for Your Family</p> <p><b>Meal Organization and Preparation</b>  Organizing a Meal Plan  Cooking Time  Breakfast for a Good Start  Lunch for Mid-Day Boost  Dinner for a Satisfying Ending; Preparing a Company Dinner  Food for Guests</p> <p><b>Meal Presentation</b>  Preparing the Table  Meal Manners</p>	<p><b>LightUnit 5</b></p> <p><b>Getting Ready to Sew</b></p> <p><b>Textiles</b>  Natural Fibers  Synthetic Fibers; Yarns; Choosing Fabrics  How Fabric Is Produced  Fabric Finishes  A Trip to a Fabric Store</p> <p><b>Sewing Tools</b>  Essential Small Tools for Sewing  Other Convenient Small Tools  Sewing Notions</p> <p><b>Learning to Use the Sewing Machine</b>  The Basic Sewing Machine  Sewing With the Machine  Small Comforter Project</p>
<p><b>LightUnit 6</b></p> <p><b>Sewing for the Home</b></p> <p><b>Developing Your Sewing Skills</b>  Hand Needles  Hand-Sewing Stitches  Grading Seams; Clipping and Notching Curves  Seam Corners; Pressing Skills</p> <p><b>More About the Sewing Machine</b>  Machine Maintenance, Accessories, and Needles  Common Machine Stitches; The Serger</p> <p><b>Using Your Sewing Skills</b>  Constructing a Quillow  Constructing Patchwork Pillows  Sewing Simple Curtains</p>	<p><b>LightUnit 7</b></p> <p><b>Sewing for Yourself</b></p> <p><b>More Sewing Skills</b>  Collars  Sleeves  Zippers  Pockets; Seam Finishes  Buttonholes and Buttons</p> <p><b>Understanding Patterns</b>  Identify Your Figure Type  Shopping for a Pattern  Using the Pattern  Sewing Projects</p> <p><b>Using Your Sewing Skills</b>  Sewing Projects  Body Measurement Chart</p>	<p><b>LightUnit 8</b></p> <p><b>Godly Homekeeping</b></p> <p><b>The Purposes of the Godly Home</b>  A Place of Accommodation and Hospitality  A Place of Service and Witness</p> <p><b>The Arrangement of the Godly Home</b>  Color Sets the Tone  Patterns and Textures  Coordinating Room Design  Furniture Arrangement</p> <p><b>Keeping the Godly Home in Order</b>  The Clutter Monster  Daily Cleaning  Weekly Cleaning  The \$10,000 Plan</p>	<p><b>LightUnit 9</b></p> <p><b>Child Growth and Development</b></p> <p><b>Introduction to Child Development</b>  Basic Needs of All Children  Infants and Toddlers—Birth to 2 Years  The Preschool Years—Ages 2-5  Physical and Mental Growth  Social, Emotional, and Spiritual Characteristics  The Junior Years—Ages 9-11  Physical and Mental Characteristics  Social, Emotional, and Spiritual Characteristics</p>	<p><b>LightUnit 10</b></p> <p><b>Growing Into Godly Womanhood</b></p> <p><b>Increasing in Wisdom—Growing Mentally</b>  Godly Wisdom  Your Background and Personality  More About You</p> <p><b>Increasing in Stature—Growing Physically</b>  God's Plan for Your Body  You and Your Body  Godly Beauty</p> <p><b>Increasing in Favor With God—Growing Spiritually</b>  Your Relationship With God  Your Devotional Life With God  Attributes of a Godly Woman</p> <p><b>Increasing in Favor With Man—Growing Socially</b>  Friends and Friendships  Modest Behavior; Singlehood  Christian Courtship</p>

<p><b>LightUnit 1</b></p> <p><b>Baking Breads</b></p> <p><b>Getting Ready to Bake</b> Evaluating Equipment Flour Sweeteners, Fats, and Leavening Agents Flavorings; Storage</p> <p><b>Quick Breads</b> Bread; Quick Bread Muffins Biscuits Quick Loaf Breads</p> <p><b>Yeast Breads</b> Yeast Breads Making Yeast Bread</p>	<p><b>LightUnit 2</b></p> <p><b>Baking Pies and Cakes</b></p> <p><b>Fruit Pies</b> The Piecrust Making Piecrusts Making a Fruit Pie</p> <p><b>Cream Pies; Toppings</b> Baking a Cream Pie Pie Toppings One-Crust Pie</p> <p><b>Cakes, the Pretty Dessert</b> Basic Information for Delightful Cakes Butter Cakes and Loaf Cakes Baking an Angel Food Cake Basic Cake Frostings; Storing Baked Goods</p>	<p><b>LightUnit 3</b></p> <p><b>Gardening and Food Preservation</b></p> <p><b>Planning</b> Evaluate Your Climate Evaluate Your Soil Evaluate Your Space and Choose What to Plant Get Ready to Plant</p> <p><b>From Planting to Harvesting</b> Preparing the Soil and Planting Fighting Weeds Diseases and Pests Harvesting</p> <p><b>Preserving the Harvest</b> Dehydration and Natural Cold Storage Canning Fruits and Vegetables Canning Fruits and Vegetables, cont'd Freezing Fruits and Vegetables</p>	<p><b>LightUnit 4</b></p> <p><b>ABC's of Money Management</b></p> <p><b>A</b> All Belongs to God Appearance and Attitude Adept at Homemaking Attainable Habits</p> <p><b>B</b> Budget Build Healthy Friendships Balance Buying Habits</p> <p><b>C</b> Captured by Debt? Credit Cards Covetousness Contentment</p>	
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<p><b>LightUnit 1</b>  <b>Introduction to Horticulture and Plant Science</b>  <b>Horticulture: An Introduction</b>  Exploring the Horticulture Field  Plant Taxonomy: How Plants Are Named  <b>Plant Science</b>  Parts of the Plant and Their Functions  Environmental Requirements for Good Plant Growth  Growth Stimulants, Retardants, and Rooting Hormones</p>	<p><b>LightUnit 2</b>  <b>Plant Propagation</b>  <b>Seeds, Cuttings, and Micropropagation</b>  Seeds  Softwood and Semihardwood Cuttings and Micropropagation  <b>Cuttings, Separation and Division, Grafting</b>  Hardwood Cuttings  Separation and Division  Grafting  <b>Budding and Layering</b>  Budding  Layering</p>	<p><b>LightUnit 3</b>  <b>Greenhouse Management and Crops; Nut Crops</b>  <b>Poinsettias and Chrysanthemums</b>  Poinsettias  Chrysanthemums  <b>Easter Lilies and Nut Crops</b>  Easter Lilies  Nut Crops</p>	<p><b>LightUnit 4</b>  <b>Integrated Pest Management</b>  <b>Biological Pest Control; The Safe Use of Pesticides</b>  Integrated Pest Management and the Biological Control of Pests and Diseases  The Safe Use of Pesticides  <b>Pesticides and Herbicides</b>  Insecticides  Fungicides, Rodenticides, Molluscicides, and Nematocides  Herbicides</p>	<p><b>LightUnit 5</b>  <b>Container-Grown Plants</b>  <b>Dish Gardens and Bonsai</b>  Dish Gardens  The Art of Bonsai  <b>Houseplants; Shrubs and Trees</b>  The Interior Landscape: House-plants and Landscaping  Shrubs and Trees</p>
<p><b>LightUnit 6</b>  <b>Using Plants in the Landscape</b>  <b>Annuals, Perennials, and Specialty Plants</b>  Annual Bedding Plants  Perennials, Ornamental Grass, Vines, Bamboo, and Prairie Gardens  <b>Evergreens and Deciduous Trees</b>  Narrowleaf Evergreens  Broadleaf Evergreens  Deciduous Trees</p>	<p><b>LightUnit 7</b>  <b>Using Plants in the Landscape</b>  <b>Shrubs, Ground Covers, and Bulbs</b>  Deciduous Shrubs  Ground Covers  Bulbs  <b>Pruning; Landscaping and Outdoor Plants</b>  Techniques of Pruning  Principles of Landscaping, Maintenance, Xeriscaping, Water Gardens, and Irrigation</p>	<p><b>LightUnit 8</b>  <b>Lawn and Turfgrass; Business Ownership</b>  <b>Establishing and Maintaining a Lawn</b>  Establishing the Lawn  Maintaining the Lawn  <b>Renovating a Lawn; Owning a Business</b>  Renovating the Lawn  Business Ownership and the Free Enterprise System</p>	<p><b>LightUnit 9</b>  <b>The Vegetable Garden</b>  <b>Planning, Preparing the Site, and Planting</b>  Planning and Preparing the Garden Site  Planting the Vegetable Garden  <b>Maintaining the Garden; What to Plant</b>  Caring for the Vegetable Garden  Favorite Garden Vegetables and Herbs</p>	<p><b>LightUnit 10</b>  <b>The Small Fruit Garden; Holiday Crafts and Floral Designs</b>  <b>Strawberries and Blueberries</b>  Strawberries  Blueberries  <b>Brambles and Grapes</b>  The Bramble Fruits  Grapes  <b>Decorative Floral Designs</b>  Wreaths and Door Swags  Creating Holiday Centerpieces  Enhancements and Accessories for Floral Designs  Floral Designs</p>

<p><b>LightUnit 1</b> Learn Letter-Key Operation</p>	<p><b>LightUnit 2</b> Master Keyboarding Skill Learn Figure-Key Operation</p>	<p><b>LightUnit 3</b> Learn Symbol-Key Operation Learn Numeric Keypad Horizontal Centering Format Lists, Announcements, and Memos</p>	<p><b>LightUnit 4</b> Format Memos and Block Letters Improving Keyboarding Skill Format Unbound Report</p>	<p><b>LightUnit 5</b> Format Simple Tables Keyboarding Simulation</p>
<p><b>LightUnit 6</b> Improving Keyboarding Skill Improving Letter/Memo Formatting Format Report with References</p>	<p><b>LightUnit 7</b> Improving Keyboarding Skill Improving Table Formatting Keyboarding Simulation</p>	<p><b>LightUnit 8</b> Enhance Letter/Memo Formatting Enhance Report Formatting Enhance Table Formatting</p>	<p><b>LightUnit 9</b> Processing Business Forms Processing Employment Forms</p>	<p><b>LightUnit 10</b> Keyboarding Simulation Final Assessment of Letter, Report, and Table Formatting</p>

<p><b>Chapter 1</b></p> <p><b>Whole Numbers</b></p> <p>Addition Subtraction Multiplication Division Using Calculators Using the Memory Keys on a Calculator Story Problems Order of Operations Factors and Multiples Greatest Common Factor (GCF) Lowest Common Multiple (LCM) Exponents Square Roots Cubic Roots</p> <p><b>Chapter 6</b></p> <p><b>Rates, Ratios, Percents</b></p> <p>“Ratio Rule” Solving Word Problems with Ratios Ratios and Rates Ratio to Find Speeds and Sizes of Pulleys and Sprockets Scale Drawings The Special Ratio – Percent Calculator Tips Percent Problems</p>	<p><b>Chapter 2</b></p> <p><b>Fractions</b></p> <p>Fractions Addition and Subtraction of Fractions Multiplication of Fractions Division of Fractions Common Fractions to Decimal Fractions Division of Decimals Mixed Practice</p> <p><b>Chapter 7</b></p> <p><b>Imperial Measurements</b></p> <p>Table of Imperial Measurement Changing Imperial Units Board Feet Conversion Factors Linear Measurements:     Converting between Imperial and Metric Mass: Converting between Imperial and Metric Capacity and Cubic Measure Conversions Square Measure Conversions Mixed Practice Power, Pressure, Force, Temperature</p>	<p><b>Chapter 3</b></p> <p><b>An Introduction to Algebra</b></p> <p>Calculating Algebraic Statements Writing Algebraic Equations Solving Simple Equations Balancing an Equation Uniting Terms Checking the Root of an Equation Algebraic Statements Solving Word Problems</p> <p><b>Chapter 8</b></p> <p><b>Measurements</b></p> <p>Accurate Measurements Perimeter and Area The Circle Story Problems Area Formulae Volume Formulae Volume Problems More Shapes The Pythagorean Theorem Pitch Grade, Elevation, Length of Run Laser Levels Crop Spraying Hydraulic Pumps and Cylinders</p>	<p><b>Chapter 4</b></p> <p><b>Characteristic of Algebraic Numbers</b></p> <p>Algebraic Words and Definitions Uniting Terms Exponents Review Exercises Factors &amp; Powers Substituting Letters with Numbers Uniting Terms with Exponents</p> <p><b>Chapter 9</b></p> <p><b>Numerical Trigonometry</b></p> <p>Angles Similar Triangles Finding Missing Dimensions Trigonometry Pitch / Degrees Mixed Practice Segment of a Circle Table of Trigonometric Ratios</p>	<p><b>Chapter 5</b></p> <p><b>Integers</b></p> <p>Addition of Integers Subtraction of Integers Multiplication of Integers Division of Integers Electronic Printing Calculators</p> <p><b>Chapter 10</b></p> <p><b>Business Math 1</b></p> <p>Sales Invoices Sales Invoices &amp; Cheques Promissory Notes Bookkeeping Bank Statement Reconciliation Work and Wages The Balance Sheet Blank Forms</p> <p><b>Chapter 11</b></p> <p><b>Business Math 2</b></p> <p>Vocabulary Exercise Loans &amp; Mortgages Retailing Goods Cost of Production</p>
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<p style="text-align: center;"><b>LightUnit 1</b></p> <p><b>Electrical Careers</b>  Career Categories  Applying for a Position  Succeeding in the Workplace  Owning a Business  Training and Career</p> <p><b>Safety</b>  Workplace Injuries  Working Safely  Responding to an Accident  Hazardous Environments</p>	<p style="text-align: center;"><b>LightUnit 2</b></p> <p><b>Hand and Power Tools</b>  Measuring Tools  Wire Tools  Conduit  Striking  Drilling  Miscellaneous  Care and Repair of Tools</p> <p><b>Electrical Measurement and Testing Equipment</b>  Standard Testing and Measuring Equipment  Specialty Testers and Meters  Measuring and Testing Safe</p> <p><b>Print Reading, Specifications, and Codes</b>  Prints  Understanding Electrical Prints  Specifications  Electrical Codes and Safety</p>	<p style="text-align: center;"><b>LightUnit 3</b></p> <p><b>Math Review</b>  <b>Electrical Energy Fundamentals</b>  Electron Theory  Measuring Electricity  Circuits  Circuit Fundamentals  Electromagnetic Induction  Electrical System Overview</p>	<p style="text-align: center;"><b>LightUnit 4</b></p> <p><b>Branch-Circuit, Feeder, and Service Design</b>  Understanding Load Types  Branch-Circuit Design  Feeder and Service Loads  Determining the Number of Branch Circuits  Balancing Circuit Loads</p> <p><b>Conductors</b>  Wire vs. Cable  Wire Materials  Conductor Size  Conductor Identification</p> <p><b>Cable Systems</b>  Flexible Metal Cable  Nonmetallic Cable</p>	<p style="text-align: center;"><b>LightUnit 5</b></p> <p><b>Raceway Systems</b>  Electrical Metallic Tubing  Electrical Nonmetallic Tubing  Rigid Metal Conduit  Intermediate Metal Conduit  Rigid PVC Conduit  Flexible Metal Conduit  Liquidtight Flexible Metal</p> <p><b>Boxes, Fittings, and Covers</b>  Boxes  Fittings  Fill Allotment  Covers</p> <p><b>Device Wiring</b>  Wiring Methods and Materials  Preparation of Conductors  Wiring Switches and Receptacles  Wiring Circuits</p>
<p style="text-align: center;"><b>LightUnit 6</b></p> <p><b>Lighting Systems</b>  Lighting Terminology  Types of Lighting  Types of Lighting Fixtures  Types of Lamps  Controlling Fixtures  Installing Fixtures  Wiring Lighting Circuits</p> <p><b>Appliance Wiring and Special Outlets</b>  Appliance Wiring  Kitchen Appliances  Room Air Conditioner Units  Miscellaneous Appliance Circuits  Water Heaters  Heaters</p>	<p style="text-align: center;"><b>LightUnit 7</b></p> <p><b>Overcurrent Protection</b>  Causes of Overcurrent  Protective Devices  GFCI and AFCI Protection</p> <p><b>Grounding</b>  Grounding Basics  How the System Ground Works  Equipment Grounding</p> <p><b>Service Equipment</b>  Service Components  Service Disconnects  Service Grounding  Service Clearances  Service Completion  Transformers  Phases</p>	<p style="text-align: center;"><b>LightUnit 8</b></p> <p><b>Farm Wiring</b>  Power Distribution  Cable or Conduit  Locating Lights  Computing Farm Power</p> <p><b>Mobile Home Wiring</b>  Distribution Panelboard  Feeder Assembly  Mobile Home Service Equipment  Calculating Panelboard Load  Mobile Home Parks</p> <p><b>Swimming Pool Wiring</b>  Bonding  Grounding  Receptacles  Switches  Lighting  Miscellaneous Equipment  Overhead Conductor Clearance</p>	<p style="text-align: center;"><b>LightUnit 9</b></p> <p><b>Telephone and Computer Network Wiring</b>  Systems Overview  Installation  Other Systems</p> <p><b>Motors</b>  Types of Motors  Motor Nameplate  Proper Size of Motor Feeder  Conductors  Protection of Motor Feeder  Conductors  General Layout  Controller Requirements  Hermetic Motors  Causes of Motor Failure  Mounting  Service and Repair of Motors</p>	<p style="text-align: center;"><b>LightUnit 10</b></p> <p><b>Emergency and Standby Systems</b>  Safety  Emergency and Standby Systems  Generator Size  Portable Generators  Permanent Generators  Uninterruptible Power Supplies</p> <p><b>Electrical Remodeling</b>  Basic Considerations  Safety  Special Tools  Building Construction  Installing Cable  Box Installation  Modernizing a Building's Service  Surface Raceways and Multioutlet Assemblies</p> <p><b>Maintenance and Troubleshooting</b>  Safety Considerations  Troubleshooting Tools  Diagnosing Problems</p>

# MUSIC

<p><b>Book One</b></p> <p>Lines and Spaces, the Staff  Note Names  Note Numbers  Note Shapes  Sequence of the Scale Ascending by Name, Number, and Shape  Heads, Stems, and Flags  Whole Notes, Half Notes, Quarter Notes, Eighth Notes  Notes on Lines and Spaces</p>	<p><b>Book Two</b></p> <p>Heads, Stems, and Flags  Time Value of Notes: Whole, Half, Quarter, Eighth  Name of Notes  Shape of Notes  Number of Notes  Spelling of Notes  Sequence of Note Names, Shapes, and Numbers  Time Value of Rests  Shape of Rests  The Staff: Lines, Spaces, Ledger Lines, and Bars  Notes and Rests on the Staff</p>	<p><b>Book Three</b></p> <p>Time Value of Notes and Rests, Whole—Sixteenth  Shape of Notes and Rests  Measures and Measure Bars  The G Clef  Ledger Lines  Letters of the Degrees (G Staff)  The Time Signature 4/4, Counting Beats  Position of Half Steps in the Scale and on the Degrees  Characteristics of the Scale (DO, MI, SO, DO, Half Steps and Tetrachords)</p>	<p><b>Book Four</b></p> <p>Time Value of Notes and Rests  Measures and Measure Bars  Simple Time Signatures: 4/4, 3/4, 2/4  The Dot  Sharps and Flats  Pitch Pipe  Key Signatures by Flats  Key Signatures by Sharps</p>	
<p><b>Book Five</b></p> <p>Note Names, Shapes, and Numbers  The G Clef and the Degrees of the G Staff  Note Names of the Chromatic Scale Ascending and Descending  Key Signatures  The F Clef and the Degrees of the F Staff  Double Flat, Double Sharp, and Natural  Time Value of Notes and Rests  Simple Time Signatures  Four-, Three-, and Two-Point Patterns for Beating Time</p>	<p><b>Book Six</b></p> <p>Degrees of the Grand Staff  Key Signatures  Note Names, Shapes, and Numbers  Sharps, Flats, and Naturals  Round Notes  Time Value of Notes and Rests  Simple and Compound Time Signatures and the Patterns for Beating Time  Measures, Measure Bars, and Breather Bars  Rit., Fermata (hold), Dynamic Signs  Slur, Tie, and Beam</p>	<p><b>Book Seven</b></p> <p>Note Names, Numbers, and Shapes  Diatonic Major Scale: Half Steps and Tetrachords  Chromatic Scale  Sharp, Flat, Natural, Double Sharp, Double Flat  Minor Scale (harmonic)  Intervals (general)  G Clef, F Clef, Grand Staff, and Letters of the Degrees  Key Signatures  Time Value of Notes and Rests  Time Signatures  Triplet  Rit., Fermata, Terms Relating to Dynamics</p>	<p><b>Book Eight</b></p> <p>Note Names, Numbers, and Shapes  Clefs and Degrees of the Grand Staff  Key Signatures and Accidentals  Time Signatures  Time Value of Notes and Rests  Diatonic Major and Minor Scales, Chromatic Scale  Simple Directive Signs: D.S., D.C., Repeat, FINE, Fermata, and CODA  Basic Terms Affecting Tempo, Volume, and Style  Harmonic Intervals and Triads (general names)  Four Chords: I Chord, IV Chord, V Chord, and V7 Chord</p>	<p><b>Music in Biblical Perspective</b></p> <p>Music—An Expression of Man  Music—A Moral Issue  Testing Music by the Character of God  What About the Music Itself?  Testing Music by its Appeal  Musical Instruments and the New Testament  Music and Entertainment  We Have a Song—Let's Sing  Hymn Appreciation  Characteristics of Good Music  Characteristics of Excellent Lyrics  Histories of Songs</p>

**PILGRIM'S PROGRESS** Part 1: Christian – LightUnits 1-3; Part 2: Christiana – LightUnits 4, 5

<b>LightUnit 1</b>	<b>LightUnit 2</b>	<b>LightUnit 3</b>	<b>LightUnit 4</b>	<b>LightUnit 5</b>
<p>The Den and the Dreamer  The Slough of Despond  Mr. Worldly Wiseman  The Wicket Gate  The Interpreter's House  The Cross and the Contrast  The Hill Difficulty  The Palace Beautiful</p>	<p>Apollyon  The Valley of the Shadow  Christian and Faithful  Talkative  Vanity Fair  Christian and Hopeful  Doubting Castle and Giant Despair</p>	<p>The Delectable Mountains  The Enchanted Ground  Ignorance  The Land of Beulah  At Home</p>	<p>The Nightmare and the King's Messenger  The Neighbors and the Slough  The Wicket Gate  The Interpreter's House  Great Heart and the Hill of Difficulty  Into the Palace Beautiful  More at Palace Beautiful  The Valley of Humiliation and the Valley of the Shadow</p>	<p>Old Mr. Honest  The House of Gaius  Vanity Fair Again  The Death of Giant Despair  The Delectable Mountains  Valiant-for-Truth  Enchanted Ground  The Land of Beulah</p>

<p><b>LightUnit 1</b></p> <p><b>Working with Whole Numbers</b>  Understanding Whole Numbers  Adding Whole Numbers  Subtracting Whole Numbers  Dividing Whole Numbers</p>	<p><b>LightUnit 2</b></p> <p><b>Working with Simple Fractions</b>  Understanding Fractions  Understanding Factors  Finding Equivalent Fractions</p>	<p><b>LightUnit 3</b></p> <p><b>Working with Complex Fractions</b>  Adding Fractions  Subtracting Fractions  Multiplying Fractions  Dividing Fractions</p>	<p><b>LightUnit 4</b></p> <p><b>Working with Decimals</b>  Understanding Decimals  Adding and Subtracting Decimals  Multiplying Decimals  Dividing Decimals  Changing Fractions to Decimals  Changing Decimals to Fractions</p>	<p><b>LightUnit 5</b></p> <p><b>Working with Percentages</b>  Understanding Percentages  Solving Percentage Problems  Calculating Costs</p>
<p><b>LightUnit 6</b></p> <p><b>Working with Measurements</b>  Understanding Units of Measure  Converting Units of Measure  Adding and Subtracting Units of Measure  Multiplying and Dividing Units of Measure</p>	<p><b>LightUnit 7</b></p> <p><b>Working with Exponents</b>  Understanding Exponents  Understanding Square Roots</p>	<p><b>LightUnit 8</b></p> <p><b>Working with Ratios and Proportions</b>  Using Ratios  Using Proportions</p>	<p><b>LightUnit 9</b></p> <p><b>Working with Plane and Solid Figures</b>  Understanding Plane Figures  Understanding Solid Figures</p>	<p><b>LightUnit 10</b></p> <p><b>Working with Graphs</b>  Using Line Graphs  Using Bar Graphs  Using Pie Graphs</p>

<p><b>LightUnit 1</b></p> <p>Construction Drawing Organization</p> <p>Construction Math and Applications</p>	<p><b>LightUnit 2</b></p> <p>Reading Measuring Tools and Using Scales</p> <p>Lines and Symbols</p>	<p><b>LightUnit 3</b></p> <p>Fundamental Drawing Practices</p>	<p><b>LightUnit 4</b></p> <p>Specifications and Building Codes</p> <p>Construction Materials—Types and Uses</p>	<p><b>LightUnit 5</b></p> <p>Learning to Use the Print Overlay</p> <p>Site Plans</p> <p>Architectural Drawings</p>
<p><b>LightUnit 6</b></p> <p>Foundation Prints</p> <p>Structural Prints</p>	<p><b>LightUnit 7</b></p> <p>Residential Framing Prints</p> <p>Plumbing Prints</p> <p>HVAC Prints</p>	<p><b>LightUnit 8</b></p> <p>Electrical Prints</p> <p>Welding Prints</p>	<p><b>LightUnit 9</b></p> <p>Estimating Construction Costs</p> <p>Advanced Project A</p>	<p><b>LightUnit 10</b></p> <p>Advanced Project B</p> <p>Advanced Project D</p>

# RECORDKEEPING for Christian Stewardship

<p style="text-align: center;"><b>LightUnit 1</b></p> <p><b>Part 1: Personal Recordkeeping for Christian Stewardship</b></p> <p>Recording, Filing, and Organizing Information</p> <ul style="list-style-type: none"> <li>Using Forms</li> <li>Maintaining Accurate Records</li> <li>Alphabetic Filing of Records</li> <li>Numeric and Subject Filing of Records</li> <li>Keeping Personal Records</li> </ul> <p>Working With Bank Accounts</p> <ul style="list-style-type: none"> <li>Basic Banking Services: Checking Accounts</li> <li>Writing and Recording Checks</li> <li>Reconciling a Checking Account</li> <li>Savings Accounts</li> </ul> <p>Budgeting Income and Expenses</p> <ul style="list-style-type: none"> <li>Planning a Budget</li> <li>Recording Income and Expenses</li> <li>Analyzing Income and Expenses</li> </ul>	<p style="text-align: center;"><b>LightUnit 2</b></p> <p>Using Credit</p> <ul style="list-style-type: none"> <li>Understanding Credit</li> <li>Using Charge Accounts and Credit Cards</li> <li>Borrowing Money</li> </ul> <p>Paying Taxes</p> <ul style="list-style-type: none"> <li>Sales and Property Taxes</li> <li>Social Security Taxes</li> <li>Income Taxes</li> </ul>	<p style="text-align: center;"><b>LightUnit 3</b></p> <p><b>Part 2: Business Recordkeeping for Christian Stewardship</b></p> <p>Cash Receipts</p> <ul style="list-style-type: none"> <li>Preparing Sales Receipts and Payment Receipts</li> <li>Receiving Payments</li> <li>Making Cash or Credit Refunds</li> <li>Using a Cash Register</li> </ul> <p>Cash Records for Small Businesses</p> <ul style="list-style-type: none"> <li>Maintaining a Classified Cash Record</li> <li>Preparing a Business Budget</li> <li>Keeping Petty Cash Records</li> </ul>	<p style="text-align: center;"><b>LightUnit 4</b></p> <p>Business Banking</p> <ul style="list-style-type: none"> <li>Making Deposits</li> <li>Using a Business Checkbook</li> <li>Reconciling a Business Checkbook</li> </ul> <p>Farm Records</p> <ul style="list-style-type: none"> <li>Farm Income Records</li> <li>Farm Expense Records</li> <li>Annual Farm Records</li> </ul>	<p style="text-align: center;"><b>LightUnit 5</b></p> <p>Charge Sales and Accounts Receivable</p> <ul style="list-style-type: none"> <li>Charge Sales and Accounts Receivable</li> <li>Posting Charge Sales, Payments, and Credit Memos</li> <li>Preparing Statements of Account</li> </ul> <p>Inventory</p> <ul style="list-style-type: none"> <li>Keeping a Perpetual Inventory</li> <li>Ordering and Receiving Merchandise</li> <li>Periodic Inventory and Valuation</li> </ul>
<p style="text-align: center;"><b>LightUnit 6</b></p> <p>Purchase Invoices and Accounts Payable</p> <ul style="list-style-type: none"> <li>Purchase Invoices</li> <li>Discounts and Due Dates</li> <li>Accounts Payable Records</li> </ul> <p>Payroll</p> <ul style="list-style-type: none"> <li>Computing Gross Earnings From Timecards</li> <li>Computing Gross Earnings: Salaries, Commissions, and Piecework</li> <li>Computing Net Pay</li> <li>Preparing the Payroll</li> </ul>	<p style="text-align: center;"><b>LightUnit 7</b></p> <p><b>Part 3: Business Accounting for Christian Stewardship</b></p> <p>Basic Accounting Records</p> <ul style="list-style-type: none"> <li>Introduction to Accounting</li> <li>The Balance Sheet</li> <li>The General Journal and the Opening Entry</li> <li>General Ledger Accounts</li> </ul> <p>Accounting Transactions</p> <ul style="list-style-type: none"> <li>Analyzing Transactions</li> <li>Recording Transactions</li> <li>Posting Transactions</li> </ul>	<p style="text-align: center;"><b>LightUnit 8</b></p> <p>Multi-Column Journals for Service Businesses</p> <ul style="list-style-type: none"> <li>Journalizing in a Multi-column Journal</li> <li>Proving a Multi-column Journal</li> <li>Posting From a Multi-column Journal</li> </ul> <p>The Trial Balance and Worksheet</p> <ul style="list-style-type: none"> <li>The Trial Balance</li> <li>The Worksheet</li> </ul> <p>Financial Statements for a Service Business</p> <ul style="list-style-type: none"> <li>The Income Statement</li> <li>The Capital Statement</li> <li>The Balance Sheet</li> </ul>	<p style="text-align: center;"><b>LightUnit 9</b></p> <p>Purchases Journal and Cash Payments Journal</p> <ul style="list-style-type: none"> <li>The Purchases Journal</li> <li>Purchase Returns and Allowances</li> <li>The Cash Payments Journal</li> </ul> <p>Sales Journal and Cash Receipts Journal</p> <ul style="list-style-type: none"> <li>The Sales Journal</li> <li>Sales Returns and Allowances</li> <li>The Cash Receipts Journal</li> </ul>	<p style="text-align: center;"><b>LightUnit 10</b></p> <p>Subsidiary Ledgers and Special Journals</p> <ul style="list-style-type: none"> <li>Accounts Payable and a Purchases Journal</li> <li>Accounts Payable and a Multi-Column Cash Payments Journal</li> <li>Accounts Receivable and a Sales Journal</li> <li>Accounts Receivable and a Multi-column Cash Receipts Journal</li> </ul> <p>Financial Statements for a Merchandising Business</p> <ul style="list-style-type: none"> <li>The Trial Balance and Worksheet</li> <li>The Income Statement</li> <li>The Capital Statement and Balance Sheet</li> </ul>

## SMALL ENGINE AND EQUIPMENT MAINTENANCE 2012

<p><b>LightUnit 1</b></p> <p><b>Tools and Safety</b> Tools Safety</p> <p><b>History of Small Engines and Related Applications</b> History of Outdoor Power Equipment</p> <p><b>Outdoor Power Equipment Applications</b></p>	<p><b>LightUnit 2</b></p> <p><b>Small Engine Fundamentals</b> Four-Stroke Cycle Theory Small Engine Systems</p>	<p><b>LightUnit 3</b></p> <p><b>Outdoor Power Equipment Devices</b> Mechanical Drive Systems Mechanical Switches Implements and Attachments OPE Maintenance Storage</p> <p><b>Basic Small Engine Maintenance and Repair Projects</b> Changing Engine Oil Removing Debris from Engines Servicing Ignition Systems Servicing Air Cleaners Inspecting and Replacing Mufflers Replacing Mower-Deck Drive Belts Replacing Snow Thrower Shear Pins Replacing Snow Thrower Skid Shoes Engine Troubleshooting and General Maintenance Preparing Equipment for Long-Term Shortage</p>	<p><b>LightUnit 4</b></p> <p><b>Intermediate Small Engine Maintenance and Repair Projects</b> Overhauling Carburetors Replacing Flywheels and Flywheel Keys Servicing Flywheel Brakes Servicing Fuel Systems Servicing Governor Systems Servicing Rewind Starters</p>	<p><b>LightUnit 5</b></p> <p><b>Advanced Small Engine Maintenance and Repair Projects</b> Replacing Drive Discs Removing Carbon Deposits Servicing Electrical Systems Replacing Ignition Systems Servicing Valves</p>
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<p><b>LightUnit 1</b></p> <p>Safety in the Small Gas Engine Shop</p> <p>Shop Safety</p> <p>Be Prepared for Emergencies</p> <p>Hazardous Wastes</p> <p>OSHA</p> <p>Tools and Measuring Instruments</p> <p>Hand Tools</p> <p>Vises</p> <p>Engine Tools</p> <p>Power Tools</p> <p>Cleaning Tools and Equipment</p> <p>Measuring Instruments</p>	<p><b>LightUnit 2</b></p> <p>Fasteners, Sealants, and Gaskets</p> <p>Threaded Fasteners</p> <p>Internal Thread Repair</p> <p>Washers</p> <p>Pins</p> <p>Retaining Rings</p> <p>Keys</p> <p>Adhesives and Sealants</p> <p>Gaskets</p> <p>Fundamentals of Electricity, Magnetism, and Electronics</p> <p>Types of Electrical Circuits</p> <p>Magnetism</p> <p>Electrical Components</p> <p>Electrical Wire and Connectors</p> <p>Electronics</p> <p>Electrical Test Equipment</p>	<p><b>LightUnit 3</b></p> <p>Principles of Engine Operation</p> <p>Constructing an Elementary Engine</p> <p>Simple Engine in Operation</p> <p>Four-Stroke-Engine</p> <p>Two-Stroke-Engine</p> <p>Four-Stroke-Engine vs. Two-Stroke-Engine</p> <p>Engine Components</p> <p>Engine Block</p> <p>Crankshaft</p> <p>Pistons and Rings</p> <p>Connecting Rods and Bearings</p> <p>Intake and Exhaust Ports</p> <p>Camshafts and Gears</p> <p>Valve Lifter or Tappet</p> <p>Valve Train Configurations</p> <p>Starter Assembly</p> <p>Flywheel</p> <p>Measuring Engine Performance</p> <p>Basic Terminology</p> <p>Science of Engine Performance</p> <p>Measurements of Performance</p>	<p><b>LightUnit 4</b></p> <p>Fuel Supply, Air Induction, and Emissions</p> <p>Engine Fuels</p> <p>Fuel Systems</p> <p>Air Induction Systems</p> <p>Crankcase Breathers</p> <p>Mufflers</p> <p>Emissions</p> <p>Carburetion and Fuel Injection</p> <p>Principles of Carburetion</p> <p>Types of Carburetors</p> <p>Primers</p> <p>Anti-Afterfire Solenoids</p> <p>Manual Throttle Controls</p> <p>Governor Throttle Controls</p> <p>Fuel Injection (EFI)</p> <p>EFI System Components</p>	<p><b>LightUnit 5</b></p> <p>Ignition Systems</p> <p>Basic Ignition System Operation</p> <p>Ignition System Components</p> <p>Magneto Ignition systems</p> <p>Battery Ignition Systems</p> <p>Lubrication Systems</p> <p>Principles of Lubrication</p> <p>Oil Specifications</p> <p>Selecting the Proper Engine Oil</p> <p>Engine Lubrication systems</p> <p>Cooling Systems</p> <p>Principle of Engine Cooling</p> <p>Air Cooling</p> <p>Liquid Cooling</p>
<p><b>LightUnit 6</b></p> <p>Preventative Maintenance and Troubleshooting</p> <p>Preventative Maintenance</p> <p>Systematic Troubleshooting</p> <p>Service Information</p> <p>Fuel System Service</p> <p>Troubleshooting the Fuel System</p> <p>Carburetor Adjustments</p> <p>Carburetor Overhaul</p> <p>Engine Governor Service</p> <p>Fuel Injection Diagnosis</p>	<p><b>LightUnit 7</b></p> <p>Ignition and Electrical System Service</p> <p>Ignition System Service</p> <p>Electrical System Service</p> <p>Engine Disassembly and Inspection</p> <p>Engine Inspection</p> <p>Engine disassembly</p>	<p><b>LightUnit 8</b></p> <p>Cylinder, Crankshaft, and Piston Service</p> <p>Cylinder Reconditioning</p> <p>Crankshaft and main Bearing Service</p> <p>Piston Assembly Service</p> <p>Camshaft and Valve Train Service</p> <p>Camshaft Service</p> <p>Valve Service</p> <p>Engine Reassembly and Break-In</p> <p>Reinstalling Internal Engine Components</p> <p>Reinstalling External Engine Components</p> <p>Engine Break-In</p>	<p><b>LightUnit 9</b></p> <p>Lawn and Brush Equipment</p> <p>Working Safely</p> <p>Lawn Mowers</p> <p>Chain Saws</p> <p>String Trimmers and Brushcutters</p> <p>Edger/Trimmers</p> <p>Lawn and Garden Tractors</p> <p>Tractor Safety</p> <p>Tractor Uses</p> <p>Engine Components</p> <p>Chassis and Steering</p> <p>Transmissions</p> <p>Electrical Safety Systems</p> <p>Circuits for Study</p> <p>General Maintenance</p>	<p><b>LightUnit 10</b></p> <p>Snow Throwers</p> <p>Operating Safely</p> <p>Machine Types and Features</p> <p>Snow Thrower Operation</p> <p>General Maintenance</p> <p>Off-Season Storage</p> <p>Personal Watercraft</p> <p>PWC Main Components and Parts</p> <p>PWC Engines</p> <p>General Maintenance</p> <p>PWC Storage</p> <p>Transporting PWC</p> <p>Career Opportunities and Certification</p> <p>Considering Career Options</p> <p>Sources of Career Information</p> <p>Applying for a Position</p> <p>Succeeding in the Workplace</p> <p>Certification</p>

## SPANISH A

<p><b>LightUnit 1</b></p> <p>Verbs, Nouns, Present Tense Verb Endings</p> <p>Present Tense <i>hablar</i> Forms</p> <p>Number, Person, Tense</p> <p>Present Tense <i>-ar</i> Verb Endings</p> <p>Number, Gender</p> <p>Gendered and Numbered endings for <i>muchacho</i></p> <p>Definite and Indefinite Articles</p> <p>Verb Stem; <i>-ar</i>, <i>-er</i>, and <i>-ir</i> Verb Endings</p> <p><i>-ir</i> Verb Endings</p> <p>Gender and Number Agreement in Articles and Nouns</p> <p>Present Tense <i>ser</i> forms</p> <p>Subject Pronouns, Respect, Gendered and Numbered Pronouns</p>	<p><b>LightUnit 2</b></p> <p>Adjectives, Endings, and Agreement</p> <p>Possessive Adjectives</p> <p>Irregular Present Tense Verbs <i>ir</i>, <i>ser</i>, <i>ver</i>, <i>dar</i>, and <i>oír</i></p> <p>Stem-Change Verbs</p> <p>Yo-Form Irregular Verbs; <i>-go</i> Verbs; <i>c-to-zc</i> Verbs</p>	<p><b>LightUnit 3</b></p> <p>Uses of <i>ser</i> and <i>estar</i></p> <p>Interrogative Statements</p> <p>Present Tense <i>tener</i> Forms</p> <p>Answering Questions, Negatively, and Positively</p> <p><i>o-to-ue</i> Verb, <i>dormir</i></p> <p>Phrases With <i>hacer</i> and <i>tener</i></p> <p>Present Tense <i>hacer</i> Forms</p>	<p><b>LightUnit 4</b></p> <p>Adverbs; <i>¿Dónde?</i> and <i>¿Cuándo?</i> and <i>muy</i></p> <p>Present Tense Forms of <i>poder</i></p> <p>Prepositions: Where, When, About, and <i>con</i></p> <p>Direct Objects and Direct Object Pronouns; Personal <i>a</i></p> <p>Indirect Objects and Indirect Object Pronouns</p> <p>Special Verbs: Use of <i>gustar</i>, <i>encantar</i>, <i>importar</i>, <i>enfadar</i>, <i>molestar</i></p> <p>Uses of <i>de</i></p> <p>Uses of <i>por</i> and <i>para</i></p> <p>Present Tense Forms of <i>encender</i></p> <p>Past Tense Verbs and Endings</p>	<p><b>LightUnit 5</b></p> <p>Future Tense Verbs and Endings</p> <p>Near-Future and Near-Past Tenses</p> <p>Present Tense Forms of <i>acabar</i></p> <p>Special Verbs: <i>saber</i> and <i>conocer</i>, <i>entender</i> and <i>comprender</i></p> <p>Present Tense Forms of <i>conocer</i></p> <p>Present Participle Verb Endings; Present-Progressive Tense</p>
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## SPANISH B

LightUnit 1	LightUnit 2	LightUnit 3	LightUnit 4	LightUnit 5
Verbs and Their Endings Irregular Verbs Preterit Irregulars Word Jobs: Nouns, Articles, and Adjectives Adverbs and Prepositions Pronouns	<i>Hay</i> and <i>Hay que</i> Infinitives Telling Time Imperfect Tense Imperfect Irregulars Past Participles	Possessive Pronouns Demonstrative Adjectives Demonstrative Pronouns Making Comparisons Superlatives	Passive Voice with <i>Se</i> Reflexive Pronouns, Part I Reflexive Pronouns, Part II Review	Commands Commands and Pronouns Informal Commands Irregular Commands <i>Vosotros</i> and <i>Nosotros</i> Commands Review

<b>LightUnit 1</b>	<b>LightUnit 2</b>	<b>LightUnit 3</b>	<b>LightUnit 4</b>	<b>LightUnit 5</b>
<p>Drawing Fundamentals Instrument Drawings and Techniques</p>	<p>Geometric Constructions</p>	<p>Pictorial Drawings Multiview, Auxiliary View, and Sectional Drawings</p>	<p>Dimensioning and Tolerancing</p>	<p>Prints Specialized Drawings</p>

# Christian Light Education High School Graduation Requirements

Academic Diploma		General Diploma		Vocational Diploma		
SUBJECTS	Course	Credits	Course	Credits	Course	Credits
Bible	20 LUs 901 or above	2	20 LUs 801 or above	2	20 LUs 701 or above	2
Language Arts	English I, Literature I ( <i>Perspectives of Life</i> ), English II, Literature II ( <i>Perspectives of Truth</i> )	4	40 or more LUs 801 or above, at least through English II Unit 10	4	40 or more LUs 501 or above, at least through 810	4
Math	Algebra I (900) & Geometry* (1000) & Student's choice of high school level Math *May substitute Math 1100	3	30 LUs of Math 800-1200, <i>Consumer Math</i> , or <i>Practical Math</i>	3	30 LUs 601 or above at least through 810	3
Science	General Science* (900) & Biology* (1000) & Student's choice of high school level Science *May substitute Apologia Physical Science or higher	3	General Science* (900) & Biology* (1000) & Student's choice of high school level Science *May substitute Apologia Physical Science or higher	3	30 LUs 601 or above at least through 810	3
Social Studies	Civics and World Geography (900), World History (1000), U.S. History (1100)	3	U.S. History (800) or (1100), Civics and World Geography (900), World History (1000)	3	30 LUs 601 or above at least through 810	3
Foreign Language	Required	1	Not Required		Not Required	
Physical Education	Required (may do ½ credit each year)	1	Required (may do ½ credit each year)	1	Not Required	
Electives	Student's Choice	5	Student's Choice	6	Student's Choice	3
TOTAL Credits Required		22		22		18

<b>Social Studies Options for Canadian Customers</b>	Canadian Social Studies (701-705) Canadian Social Studies (801-805) World History (1001-1010) Student's choice of Social Studies 900,1100, or 1200	3	Canadian Social Studies (701-705) Canadian Social Studies (801-805) World History (1001-1010) Student's choice of Social Studies 900,1100, or 1200	3	Canadian Social Studies (701-705) Canadian Social Studies (801-805) 20 LightUnits 601 or above	3
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(Note: Course availability is subject to change.)

## Core Subjects:

### Bible:

- Christ in the Old Testament — Bible 901-910
- New Testament Survey — Bible 901-910
- Bible 1101-1110 (Major themes: God, Christ, Israel, Bible, Christian Life)
- Bible 1201-1210 (Major themes: Godhead, Christian Service, Wisdom, Christian Life)

### English:

- English I 1-10
- Literature I 1-10
- English II 1-10
- Literature II 1-10

### Math:

- Algebra I 1-10
- Geometry — Math 1001-1010
- Algebra II — Math 1101-1110
- Functions and Trigonometry — Math 1201-1210

**Electives:** (Check the current *CLE Catalog* for list and descriptions of electives available.)

- Any CLE core course that is not a required subject for the diploma may be completed for elective credit.
- You may submit a copy of the student's Driver's Ed/Training certificate of completion or driver's license for 0.5 credit.

### Science:

- General Science — Science 901-910 or *Apologia Physical Science*
- Biology — Science 1001-1010 or *Apologia Biology*
- Chemistry — Science 1101-1110 or *Apologia Chemistry*
- Physics — Science 1201-1210 or *Apologia Physics*

### Social Studies:

- Civics and World Geography — Social Studies 901-910
- World History — Social Studies 1001-1010
- U.S. History — Social Studies 1101-1110
- Democracy and Christian Challenges — Social Studies 1201-1210

<p>One credit = 10 LightUnits One credit = 120 hours of classroom work or 240 hours of laboratory type activity. A student receives high school credit when he enters his ninth year of school or when he begins working in 900 level material, whichever comes first. Credit cannot be earned for LightUnits numbered 501-810 unless they are completed after the student enters ninth grade. Credit and course requirements for graduation in your state/province may vary from those listed. Please check to ensure that adequate requirements are being met.</p>
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