IMPLEMENTATION WORKBOOK

K-5 MATH ACADEMY CHRISTINA TONDEVOLD

Table of Contents

Early Numeracy	3
Number Relationships	5
C-R-A	7
Usina Context	9

Early Numeracy

4 Early Numeracy Concepts

1. Subitizing

2. Verbal Counting

3. Object Counting (Enumeration)

4. Telling How Many (Cardinality)

Subitizing

What & Why: What is it? Why is it so important?

How: How will you implement subitizing into your classroom this week?

4 Number Relationships

4 Number Relationships

1. Spatial Relationships

2. One/Two More and Less

3. Benchmarks of 5 & 10

4. Part-Part-Whole

Benchmarks of 5 & 10

What & Why: What is it? Why is it so important?

How: How will you implement Benchmarks of 5 & 10 into your classroom this week?

C-R-A

1. Concrete

2. Representational

3. Abstract

C-R-A

What & Why: What is it? Why is it so important?

How: How will you implement CRA into your classroom this week?

Context Situations

TABLE 1. Common addition and subtraction situations.6

	Result Unknown	Change Unknown	Start Unknown
Add to	Two bunnies sat on the grass. Three more bunnies hopped there. How many bunnies are on the grass now? 2 + 3 = ?	Two bunnies were sitting on the grass. Some more bunnies hopped there. Then there were five bunnies. How many bunnies hopped over to the first two? 2 + ? = 5	Some bunnies were sitting on the grass. Three more bunnies hopped there. Then there were five bunnies. How many bunnies were on the grass before? ? + 3 = 5
Take from	Five apples were on the table. I ate two apples. How many apples are on the table now? 5 - 2 = ?	Five apples were on the table. I ate some apples. Then there were three apples. How many apples did I eat? 5 - ? = 3	Some apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table before? ? - 2 = 3
	Total Unknown	Addend Unknown	Both Addends Unknown ¹
Put Together/ Take Apart²	Three red apples and two green apples are on the table. How many apples are on the table? 3 + 2 = ?	Five apples are on the table. Three are red and the rest are green. How many apples are green? 3 + ? = 5, 5 - 3 = ?	Grandma has five flowers. How many can she put in her red vase and how many in her blue vase? $5 = 0 + 5, 5 = 5 + 0$ $5 = 1 + 4, 5 = 4 + 1$
			5 = 2 + 3, 5 = 3 + 2
	Difference Unknown	Bigger Unknown	Smaller Unknown
Compare ³	("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy? ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie? 2 + ? = 5, 5 - 2 = ?	(Version with "more"): Julie has three more apples than Lucy. Lucy has two apples. How many apples does Julie have? (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has two apples. How many apples does Julie have? 2 + 3 = ?, 3 + 2 = ?	(Version with "more"): Julie has three more apples than Lucy. Julie has five apples. How many apples does Lucy have? (Version with "fewer"): Lucy has 3 fewer apples than Julie. Julie has five apples. How many apples does Lucy have? 5 - 3 = ?, ? + 3 = 5

From P. 88 Of Common Core Standards

Context Situations

What & Why: What is it? Why is it so important?

How: How will you implement contextual situations into your classroom this week?