

# **Speaker Disclosures (Financial)**

- The Vision Team has no Relevant Financial Relationships or Relevant Non-financial Relationships to disclose relating to this presentation.
- As clinicians here at ESC, we provide services such as evaluations and training, and most importantly, support for persons with different abilities.
- We do not sell nor do we receive any benefit from the equipment that we recommend.





#### **AGENDA**

- 1. What is Assistive Technology?
- 2. Low Tech, Mid Tech and High Tech
- 3. Personal Assistance / Smart Speaker
- 4. Wearable Technology
- 5. Computer Built-in Accessibility
- 6. When Built-in Isn't Enough





# What is AT or Assistive Technology

- Any device or system that allows a person with different abilities to perform an activity that they might not otherwise be able to. In essence, it is used to:
- Increase,
- Maintain or
- Improve the
- Functional capabilities of
- Persons with disabilities.
- Courtesy of Assistive Technology Industry Association.
- It can be divided into three categories: low tech, mid tech, high tech.



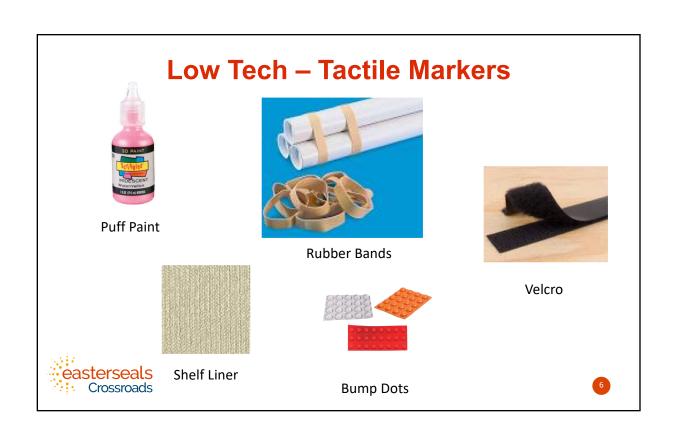


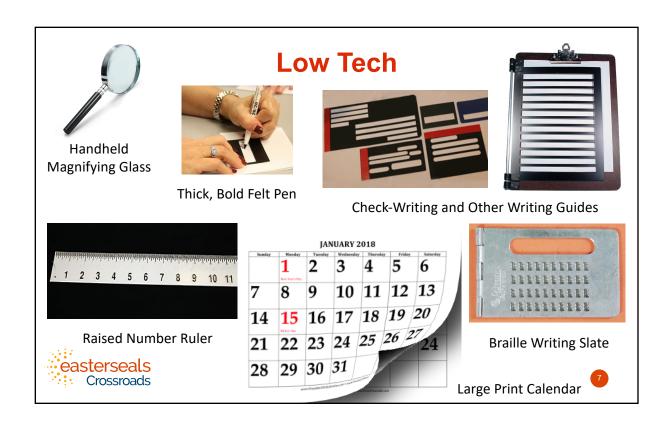
## **Low Tech - Characteristics**

- 1. Does not require much training
- 2. May be less expensive
- 3. Does not have much complicated or mechanical features









## **Mid Tech - Characteristics**

- 1. Electronic in nature
- 2. Fairly inexpensive
- 3. Requires less training than high tech



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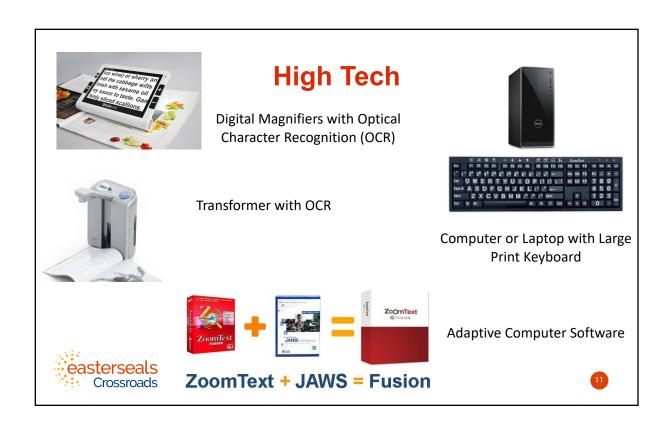


# **High Tech - Characteristics**

- 1. Based on computer technology
- 2. Require more training
- 3. Considerably more expensive









## Personal Assistant / Smart Speaker

- Amazon Echo Dot Show- Alexa Look
- Google Home Mini
- Computers/Smart Phones Cortana Siri Bixby – Google Assistant





# **What Can My Personal Assistant Do?**

- News and Weather
- Home Control locks temperature lights cleaning – on and on
- Games and Fun
- Entertainment reading books listening to music
- Quick calculations / defining or word translations
- Scheduling timers alarms reminders





## **Continued:**

- Transportation directions requesting a ride
- Shopping
- Making phone calls
- Sending messages







#### **Orcam**

- Wired or Wireless
- OrCam MyEye For persons who are blind and or partially sighted, an artificial vision device with a lightweight smart camera that instantly reads text aloud- from any surface – and recognizes faces, products, and money notes in real time.
- Let's see some examples...





#### **C-Pen Reader**

- Reader Pen
- ExamReader
- Dictionary Pen
- TS1
- https://cpen.com/products/





## **C-Pen Reader**

- Captures printed information (text, numbers, codes, etc.)
- Decode and transfer it to computers or smart devices.
- Makes information available for further processing, e.g. translation, text-to-speech or general data entry, etc.





# **Built-In Accessibility**

- Windows
- Mac
- ChromeBook









## **Chromebook**

## Display

- High Contrast
- Magnifier
- Text Size



#### Screen Reader

ChromeVox





# **Accessibility Options**

### **ChromeBook**

## **How to Enable Accessibility Options In Chrome OS**

To enable accessibility options in Chrome OS, go to settings and search accessibility. You can also access them by going to Settings > Advanced Options > Accessibility.





## Mac

## Display

- Contrast
- Magnifier
- Large Text
- Mouse

#### Screen Reader

VoiceOver







# **Accessibility Options**

#### **MAC**

#### **How to Enable Accessibility Options In MAC OS**

macOS features an **Accessibility** Options window that lets you quickly turn on or off common **accessibility** features like Zoom, VoiceOver, Zoom and more. You can bring up this window anytime with a simple shortcut. On the built-in keyboard of a **Mac** notebook computer, press Fn-Option-Command-F5.





#### **Windows**

## Display

- High Contrast
- Magnifier
- Text Size
- Mouse



#### Screen Reader

Narrator





# **Accessibility Options**

#### **Windows**



Setting up your PC to make it more accessible takes only a few steps. Most Ease of Access options are available in Settings. Select the **Start** button, then select **Settings** > **Ease of Access**.

Commonly used options are also available from the sign-in screen. Select the **Ease of Access** button in the lower-right corner to see them.





# When Built in Accessibility Tools Aren't Enough

- Screen Magnification
  - ZoomText Magnifier
  - ZoomTextMagnifier/Reader
  - MAGic No Speech or with Speech
  - Dolphin SuperNova

- Screen Readers
  - JAWS
  - Zoomtext Fusion
  - NVDA
  - Dolphin Guide





# **Screen Magnification**

- Offers additional contrast settings
- Offers Screen enhancements
  - Pointer
  - Cursor tracking
- With Speech
  - Can read text
  - Can echo as you move the mouse
  - Can give typing echo





# Screen Readers: (When Magnification no longer works)

- Gives audio and can give Braille feedback to what is on the screen
- Use keystrokes to navigate





# Thank you! Any questions?

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