

# BEHAVIOR SUPPORTS AND ASSISTIVE TECHNOLOGY

Provided by Oklahoma ABLE Tech  
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# WHAT YOU'LL LEARN

1. Low to High-Tech Assistive Technology Solutions to Support Student Needs
2. Evidence-Based Resources on Decreasing Problem Behaviors
3. Funding Resources that Provide Assistive Technology

**“AT may be used as an intervention that reduces potential triggers of undesirable behavior.”**

*Reducing Overload in Students with Learning and Behavioral Disorders:  
The Role of Assistive Technology By Parette, Crowley, Wojcik*

# OKLAHOMA ABLE TECH

- Assistive Technology Act Program in Oklahoma
- Located on the campus of Oklahoma State University in Stillwater
- Contract with the Oklahoma State Department of Education (OSDE) and other agencies
- Mission: To help those in Oklahoma of all ages and disabilities access and acquire assistive technology

# TECHNOLOGY CAN SUPPORT STUDENTS SO THEY CAN FOCUS

## What precedes behavior?

- ABLTEch online inventory
- WATI.org (matching student needs and AT)
- Techmatrix.org



# TECHNOLOGY FOR COMMUNICATION

- No- or Low-Tech
- Mid-Tech
- High-Tech



BigMack  
speech generating device (SGD)



**“If the students knew that a number of demands would be removed by using a tool...the potential for frustration might be markedly reduced.”**

*Parette, Crowley, Wojcik*

# TECHNOLOGY FOR COMMUNICATION



Eye gaze

GoTalk

Dynamic Display

# AT TOOLS

Openebooks.net and  
Bookshare.org



## Reading & Physical Considerations

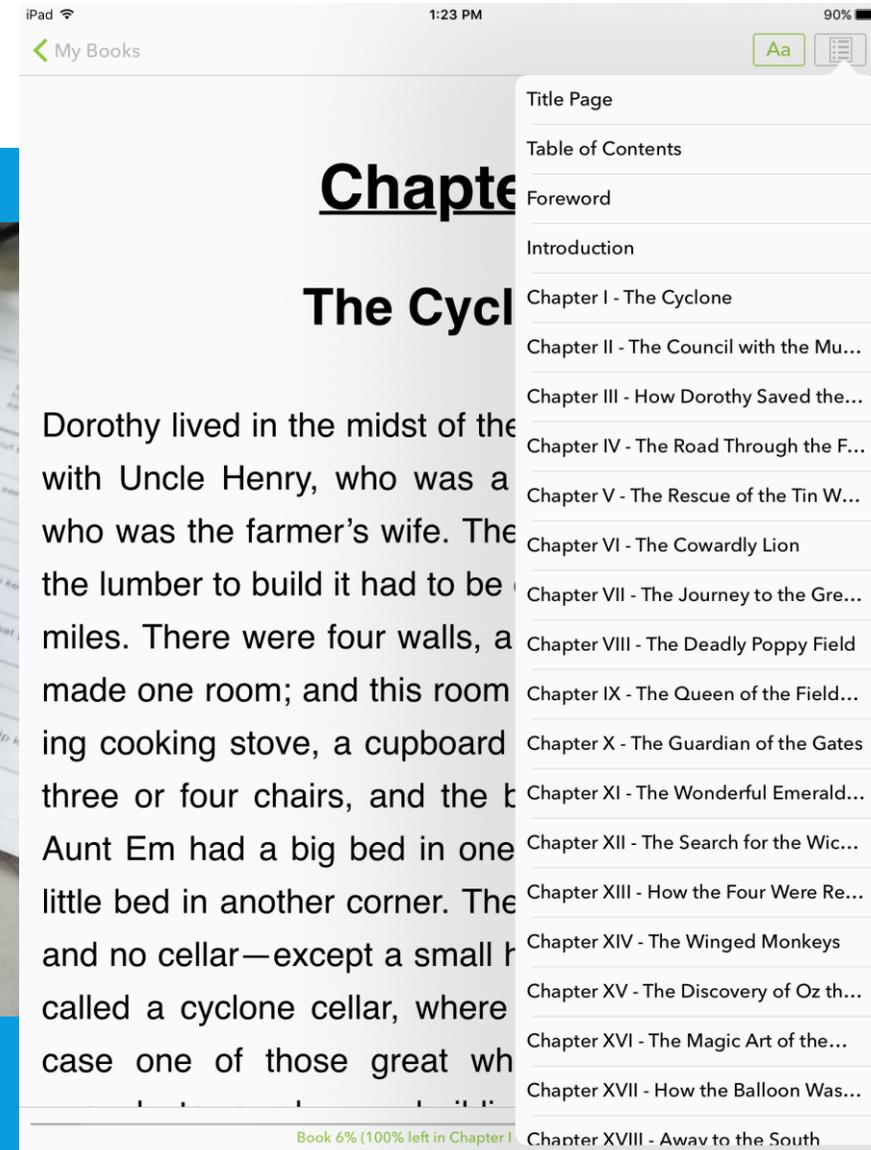
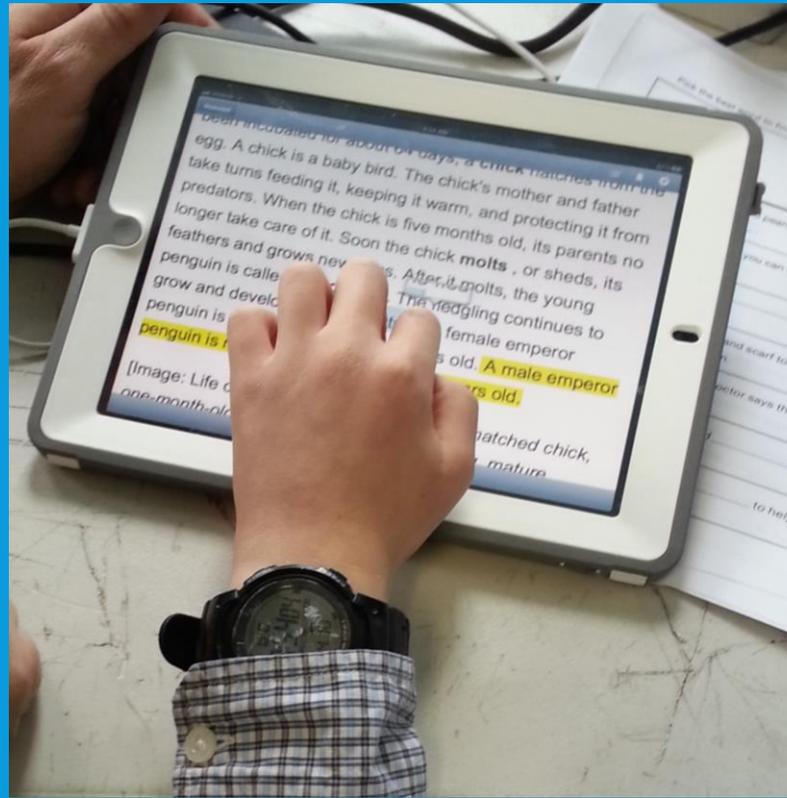
- Difficulty turning pages
- How well can student see the print?
- Digital books with Text to Speech (TTS) change font size, hear the book, easy to use
- Bookshare.org



# AT TOOLS

## Reading & Comprehension

- Auditory processing difficulties
- Read aloud by person or Text to Speech
- Digital books from Bookshare.org



# WRITING COMPOSITION

- Motor skills
- Raised or bold line paper
- Reading stand
- Magnification
- Speech Recognition
- Get ideas on paper & Organize
- Correct grammar, spelling



Make your computer easier to use

## Quick access to common tools

You can use the tools in this section to help you get started.

Windows can read and scan this list automatically. Press the SPACEBAR to select the highlighted tool.

Always read this section aloud

Always scan this section

 Start Magnifier

 Start Narrator

 Start On-Screen  
Keyboard

 Set up High Contrast

 Not sure where to start? Get recommendations to make your computer easier to use

## Explore all settings

When you select these settings, they will automatically start each time you sign in.

 Use the computer without a display  
Optimize for blindness

 Make the computer easier to see  
Optimize visual display

 Use the computer without a mouse or keyboard  
Set up alternative input devices

 Make the mouse easier to use  
Adjust settings for the mouse or other pointing devices

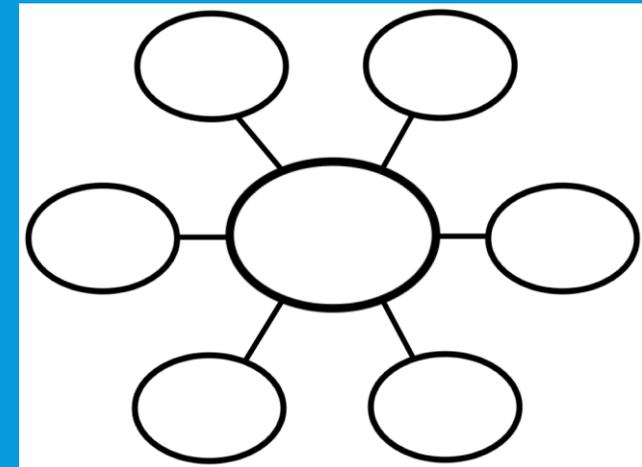
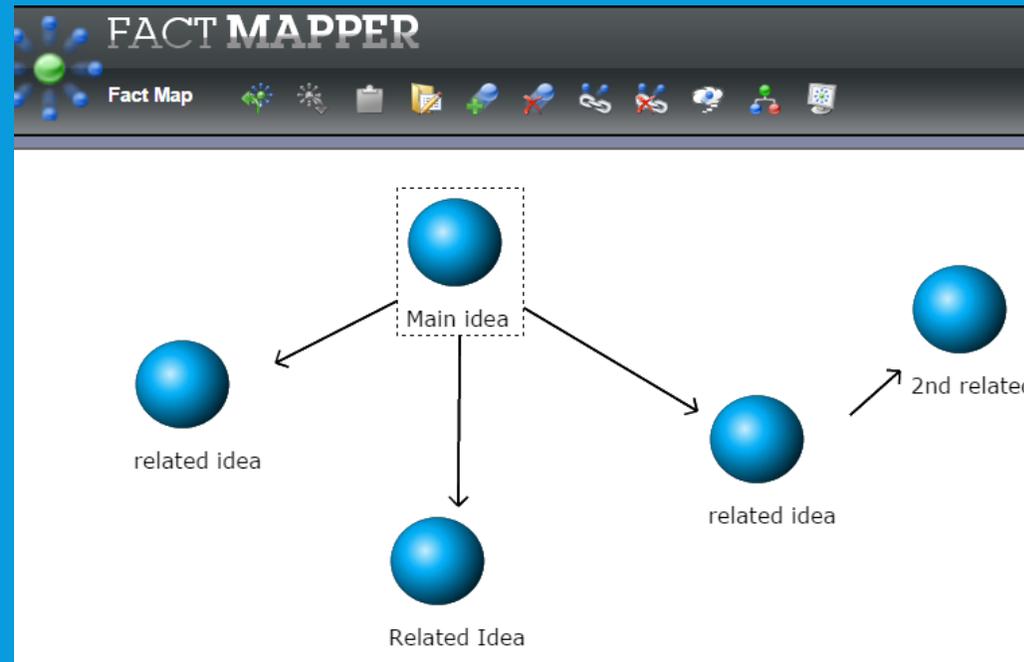
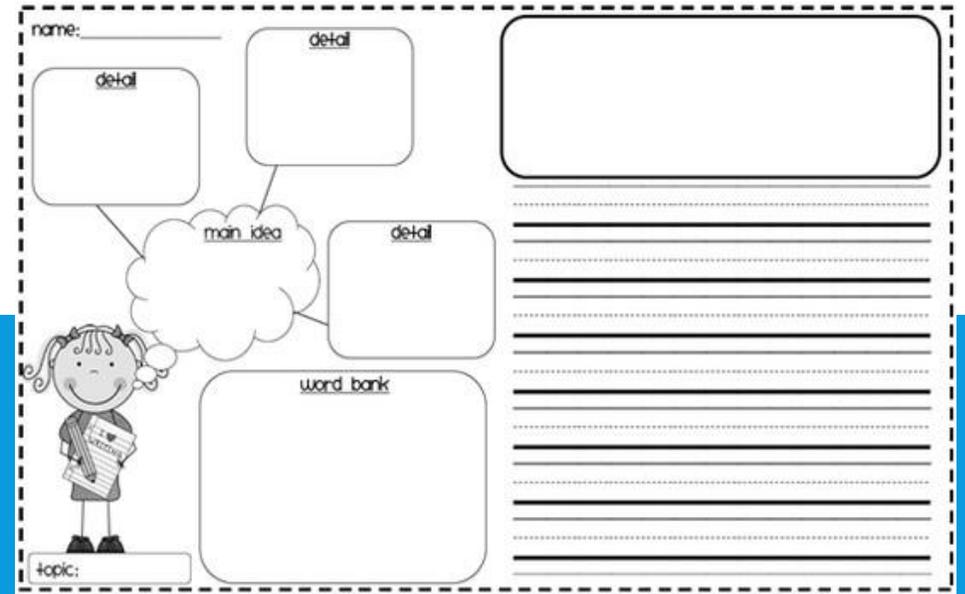
[Make the keyboard easier to use](#)

Microsoft Ease of  
Access Center



# WRITING COMPOSITION

- Talking word processors
- Fusion or Chromebook apps, extensions, Dictanote (free)
- Graphic Organizers connect ideas
- Word Prediction
- Picture Dictionary



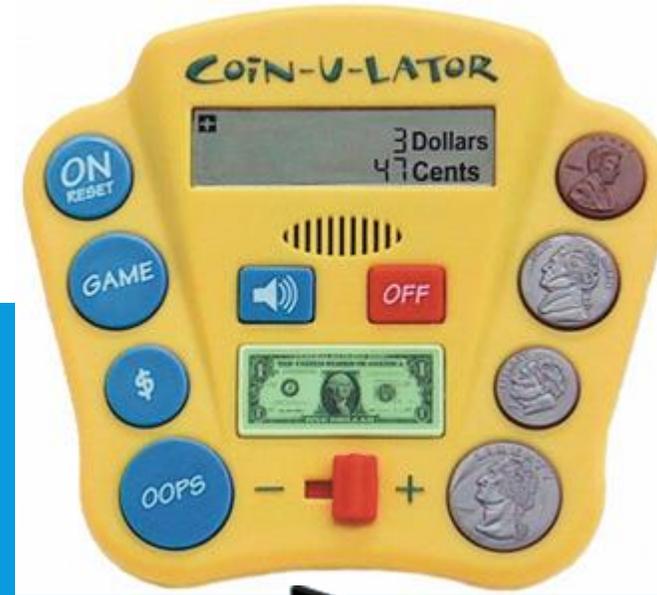
# HEARING AND FOCUS

- Vibrating pillow to relax or promote sitting
- Fidgets, therapy ball, weighted vest or blanket
- Noise cancelling headphones
- FM or digital listening systems



# AT TOOLS - MATH

- Multiple steps in problems, fatigue, visual processing
- Reading difficulty
- Low tech charts
- Writing or drawing mathematical notations
- Manipulatives
- (National Library of Virtual Manipulatives)



Talking Scientific Calculator



Mathline

| Addition   |  |  |
|--|--|--|
| $\begin{array}{r} 996 \\ +978 \\ \hline \end{array}$ | $\begin{array}{r} 896 \\ +968 \\ \hline \end{array}$ | $\begin{array}{r} 795 \\ +998 \\ \hline \end{array}$ |
| $\begin{array}{r} 598 \\ +958 \\ \hline \end{array}$ | $\begin{array}{r} 597 \\ +938 \\ \hline \end{array}$ | $\begin{array}{r} 596 \\ +928 \\ \hline \end{array}$ |
| $\begin{array}{r} 595 \\ +968 \\ \hline \end{array}$ | $\begin{array}{r} 594 \\ +978 \\ \hline \end{array}$ | $\begin{array}{r} 593 \\ +998 \\ \hline \end{array}$ |
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Guideline math paper

# ORGANIZATION

- Managing Time
- Shifting attention
- Sustaining attention
- Self-management
- Digital highlighters
- Checklists paper & digital



30/30 app



Time  
Timer



Notability

# EVIDENCE-BASED RESOURCES

- National Accessible Education Materials Center
- Wisconsin Assistive Technology Initiative [WATI.org](http://WATI.org)
- CITEd Research, Lessons for Effective Technology Implementation [www.cited.org](http://www.cited.org)
- TechMatrix.org
- Son-Rise Program – Autism Treatment Center of America
- Social Stories – Carol Gray
- Gemini Systems – The Speech Pathology Center
- Picture Exchange Communication Systems (PECS) – Pyramid Educational Systems
- Pragmatic Organization Dynamic Display (PODD) – Spectronics Inclusive Learning Technologies

# FUNDING RESOURCES THAT PROVIDE AT

- Medicaid/SoonerCare
- Ability Connection Oklahoma
- SoonerStart (Birth to 3)
- Oklahoma State Department of Education (Ages 3 - Graduation)

View ABLE Tech's Funding Manual at

[http://www.ok.gov/abletech/Publications/OK\\_Funding\\_for\\_AT](http://www.ok.gov/abletech/Publications/OK_Funding_for_AT)

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