### **Using Low-Tech to Support Literacy Learning**



Presenter: Mary Sagstetter



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### **Goals of Session**

- Increase knowledge of assistive technology tools and strategies with a focus on literacy
- Take away multiple ideas to integrate technology the into your student's day
- Share teacher resources and literacy materials



 All students are ready to experience literacybased interactions.



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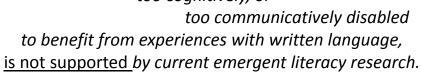
### Literacy is the Goal for All!

The notion that children are

too physically,

too cognitively, or

to henefit from experiences with written



Mirenda, 1988



### **Importance of Literacy**

for students with moderate to severe disabilities

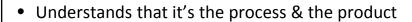
- Academic instruction for students who are nondisabled does not change at signs of no progress
- Reading is a "pivotal skill" that enhances adult outcomes & is functional
- Literacy skills can open opportunities for learning, enjoyment & work



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### Students learn because someone . . .

- Believes in their capabilities
- Has high expectations



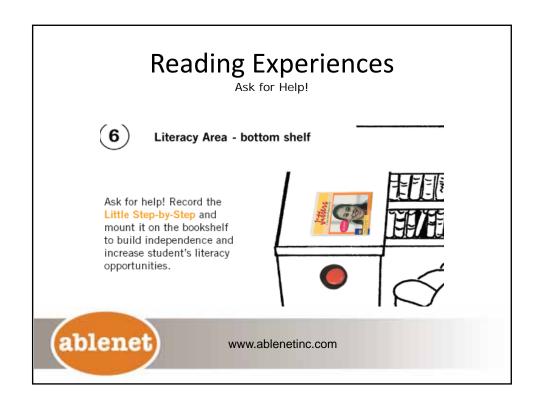
• Provides systematic strategies, instruction, & tools





 Until recently, typical literacy materials have not been thought of as accessible to students with significant disabilities.







# Interaction with Toys



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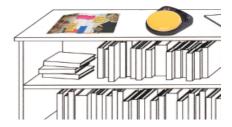
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# Reading Experiences



Literacy Area - top shelf

Read a story! Regularly record the Big Step-by-Step with each page of a story and place on the bookshelf for staff and students to use at a moments notice.







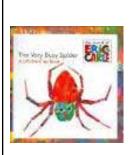
### **Background Knowledge**

- Before you read a book it is important to have background knowledge for that text
- Extensive experiences not the same
- Connect to today's purpose for reading



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### **Build Background Knowledge**

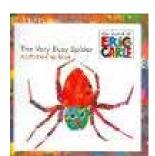






### Look for action words / verbs

- Eat
- Run
- Jump
- Roll
- Chase
- Nap
- Swim
- Catch





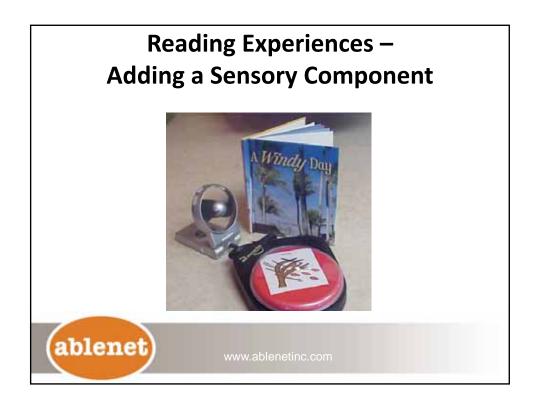
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## QuickTalker 1 / S



- Turn the page
- Repeated line
- Repeated character name or identifier
- Say a specific sound connected to the reading

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### Repetition with Variety

Read a simple text multiple times for different purposes

• Listen so that you can

identify characters tell me all the places all the feelings in the story

 Reading a story increase comprehension and fluency

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# Making Comments.... Www.ablenetinc.com

### Dr. Caroline Musselwhite

- 11 video clips
- Enhance and support teacher practice in the area of literacy for students with significant disabilities.
- http://inclusiveeducationpdresources.com/literac
   y/conversation\_with\_caroline\_musselwhite.php#



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### **Build Vocabulary Knowledge**









### Vocabulary



The National Reading Panel (NRP, 2000) emphasizes that students benefit when they are taught the meanings of words before encountering them in the text and when they are provided consistent, ongoing opportunities to learn new words through reading.

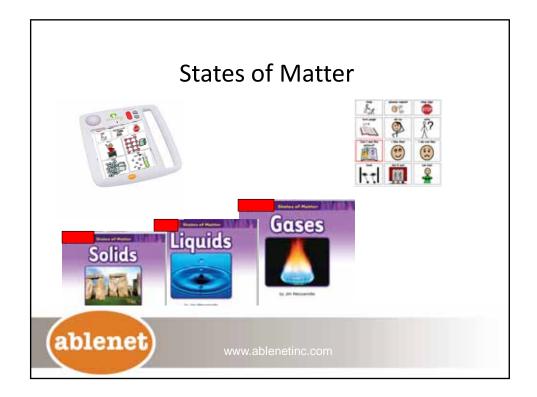


### **Vocabulary**

- Record the vocabulary word, then the definition
- Students are able to self-study or quiz others
- Example: States of Matter
   Solid -- Firm or compact
   Liquid -- Flowing readily; fluid
   Gas -- A fluid that has no fixed shape







### Person or Plant

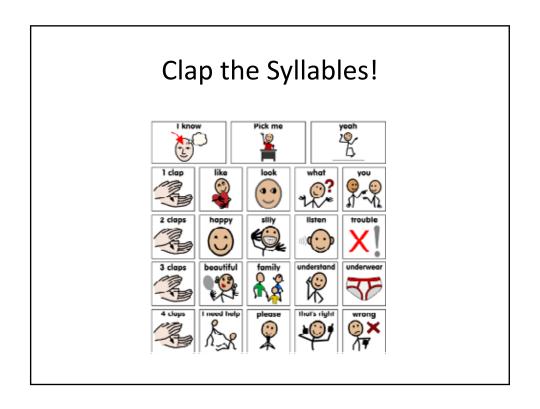


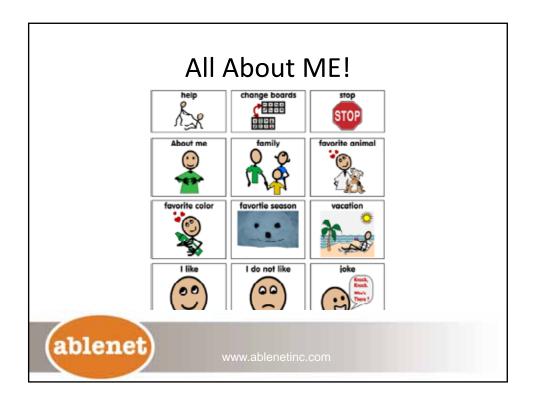


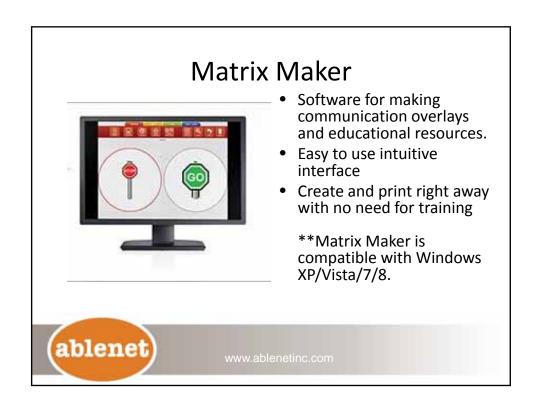


















Use a Little Step-by-Step levels to:

Record a repeated word

or

Record a repeated line

or

Record an appropriate sound effect

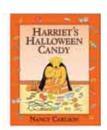






### **Predict the Story**

- · Look at the cover & a few pages
- Have students predict what the story is about – show pic-symbol choices
- Write predictions on board
- Record predictions on Step-by-Step prior to reading the story
- · Check as you read the story



The bear gets a tummy ache.

Going trick or treating.

Eating candy!

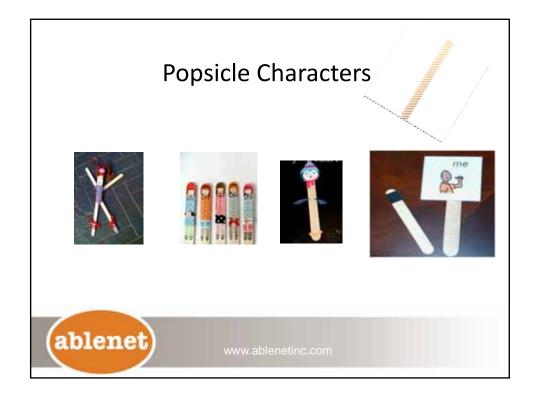


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### **Access to Print Materials**

- The first step in engaging and participating in reading is to provide students with access to print.
- Create images for characters, actions or concepts in a book print them out as paper symbols or mount them to popsicle sticks.





### **Literacy Supports**

- As students read the book together, students will listen to the story and hold up their picture(s) whenever the character or concept appears in the book.
- Attention to story
- Sense of anticipation or responsibility



### **Benefits**

- Non verbal students: alternative way to demonstrate comprehension and attention to the book.
- **Verbal students:** Opportunity for them to describe what is happening in the story.



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### **Access to Literacy**

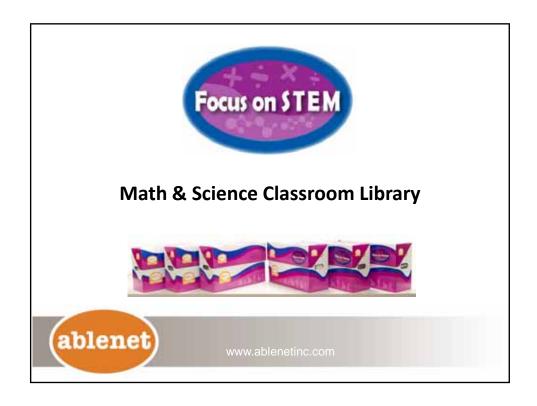


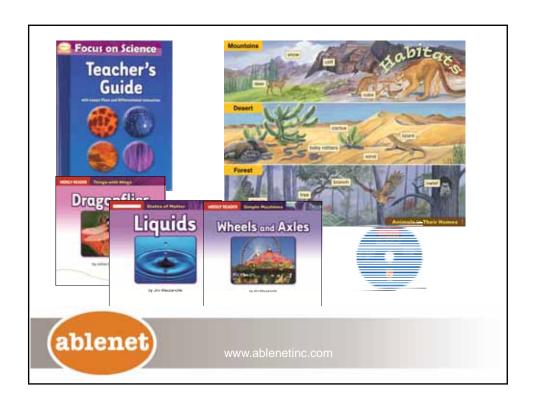
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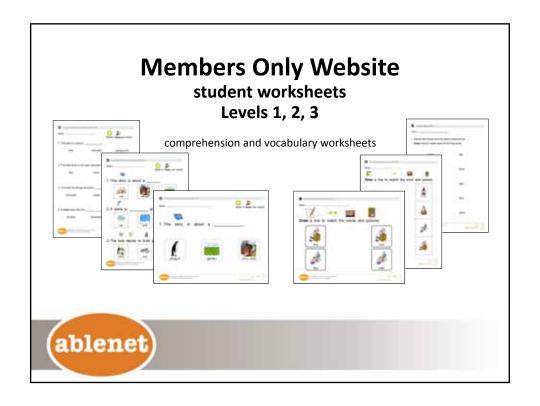


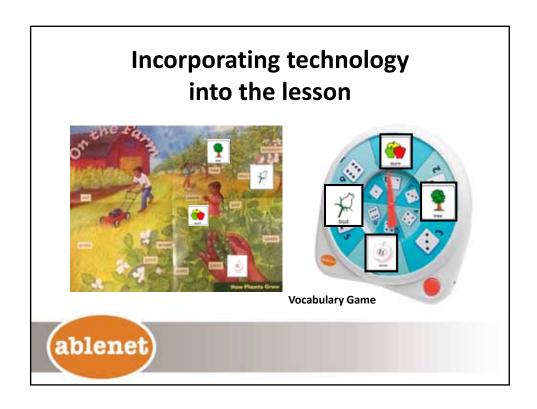


### Add bookworm video here











### Sample Objectives

 Josh will ask and answer curriculum based questions in 4<sup>th</sup> grade Language Arts by using a speech generating device 3 times during each class period 4 out of 5 days.



### Sample Objectives

 Josh will activate a dual message device to tell a joke to peers and adults 4 out of 5 opportunities.







### Sample Objectives- Written Language

Sam will write 2 or 3 sentences on the topic of his choice provided teacher prompts and computer technology.





### **Student Objectives**



Using an adapted computer keyboard, Grant will type 10 words per minute with no errors over 10 or more consecutive trials.



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### **Switch Accessible Software**

- Laureate Learning Systems
  - http://www.laureatelearning.com
- MarbleSoft
  - http://www.marblesoft.com
- Inclusive Technology
  - http://www.inclusive.co.uk/
- Priory Woods FREE
  - http://www.priorywoods.middlesbrough.sch.uk/
- Tumble Books Subscription
  - www.tumblebooks.com
- TarHeel Reader FREE
  - <a href="http://tarheelreader.org/">http://tarheelreader.org/</a>



### Tar Heel Reader

http://tarheelreader.org/

- Free collection of user-created, accessible books
- Multitude of topics
- Read and create books
- Books can be speech enabled
- Access thru Hitch Switch Interface and switch or keyboard
- Reviewed for quality and and language.
- Great resource for free, short and easily adapted



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### **Writing Activities**

Let's write the alphabet.

I will say the letter & you can write it.

A-B-C-D...

### Name

"Will you write my name for me? I will spell it for you." P, A, Y, T, O, N







### **Consider Mounting**

- Wheel Chair
- Table
- AbleNet Mounting Base
  - Mounting at floor level
  - No surface



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