



## Assistive Technology Supports for Literacy



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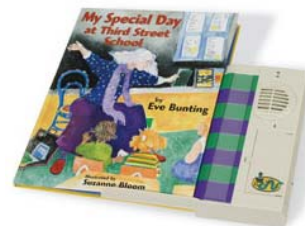
## Guided Reading and Self-Selected Reading

## Making books accessible

- Books can also be made accessible in a range of ways:
- page fluffers
- cardboard inserts
- book stands
- Bookworm from AbleNet
- Electronic Page Turners



## Bookworm



## Electronic Page Turners



## Electronic Accessible Books

- Accessible books allow students to do independent reading
- Talking books also give them the option for support from the computer if needed.

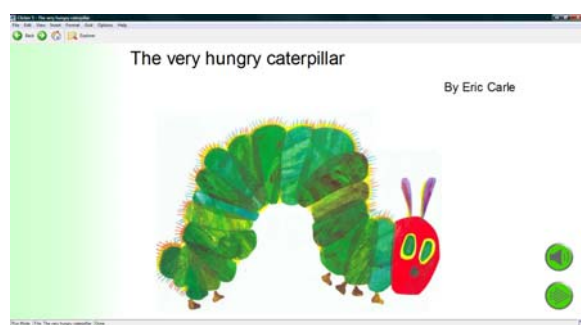


## Re-creating Picture Books

- One of the most common Accessible Books are re-created standard picture books.
- This lets children of all abilities read these books independently.
- Also lets us modify the books to suit individual students – make the text bigger for students with vision difficulties, simplify the presentation style for students who are visually distractible, etc.



## Recreated Picture Book in Clicker 5



## Creating your own books

- Books with familiar photos can be more meaningful and motivating for many children
- You can make older content with simple text
- Students can get involved in book creation



## Created book in Boardmaker Plus



## www.adaptedlearning.com

- Free resource sponsored by Mayer Johnson
- Resources contributed by people all over the world
- Find pre-made Boardmaker boards and activities on a wide range of topics – literacy, communication, behaviour management, etc.



## www.learninggrids.com

- Free resource from Crick
- Only Crick approved activities posted
- Lots of pre-made resources to support literacy programs



## Start to Finish

- A wide selection of age appropriate fiction and non-fiction books.
- Ranging from beginning texts to more complex.
- Each book in printed and electronic format



## Tar Heel Reader

- <http://tarheelreader.org/>
- Lots of simple books on a wide variety of topics suitable for older students (and students of all ages)



## Writing

## Technology to support print-has-meaning stage

- Provide the child with a pencil equivalent and access to the alphabet.
  - Onscreen keyboards with mouse alternatives
  - Onscreen keyboard with scanning arrays
  - Intellikeys
  - Eye pointing displays
  - Communication device with a “keyboard”



## On-screen keyboards

- Point and Click on-screen keyboards:
  - Clicker 5
  - DiscoverPro
  - Built into many dynamic display communication devices
- Accessed by:
  - Mouses
  - Joysticks
  - Trackers
  - Any other mouse alternative



## On-screen keyboards

- Switch access with scanning display
  - Clicker 5 with Crick USB switch interface
  - Discover Pro with Intelliswitch
  - Built into many dynamic display communication devices



## Eye Pointing Displays

- MegaBee
- ETRAN
- Other low tech eye gaze options



## Eye Gaze systems

- MyTobii P10
- Vmax with EyeMax
- C12 with CEye



## Speech Generating Devices with keyboards

- Dynamic display allowing on-screen whole word keyboards and the alphabet
  - DynaVox V and Vmax
  - Tobii C8 and C12
  - Tobii Communicator
- Keyboard only
  - LightWRITER
  - DynaWrite
  - Allora



## Some options for production difficulties

- Talking word processor
- Word prediction
  - On computer
  - In communication software



## Talking Word Processors

- Clicker Writer (in Clicker 5)
- Communicate: SymWriter
- Write:Out Loud
- textHELP: Read and Write Gold



## Communicate: SymWriter

- Word and symbol processing
- Speech support
- Also has options of on-screen keyboards



## Word Prediction

- Co:Writer
- WordQ
- textHELP: Read and Write Gold



## Word Prediction

- Available within many programs
- Can be turned on and off
- Very useful to build confidence
- Important when volume of text is the primary goal (especially with slower access)
- Should NOT be used when spelling is the primary goal e.g. making words



## Working with Words

## Accessible programs to support Working with Words Block

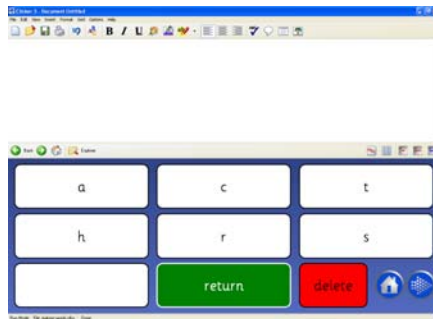
- Clicker 5
- Clicker Phonics
- Boardmaker Plus
- Cloze Pro
- Jigworks
- Dynamic display AAC devices



### Clicker 5 – Onset Rime



### Clicker 5 – Making Words

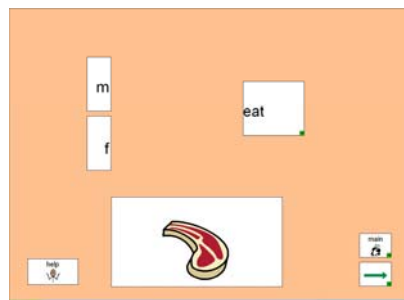


### Clicker Phonics

- Takes children from the first steps of discriminating environmental sounds right up to systematic synthetic phonics



### Boardmaker Plus - Onset Rime



### Cloze Pro

Spongebob [ ] a job [ ] the Krusty Krabb because Squidward works there.

Spongebob really wants the job but at the last minute he decides he can't do it.

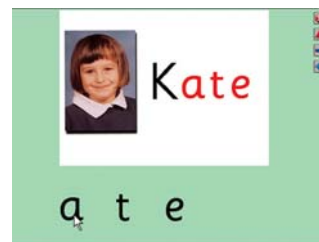
But with the help of his other best friend, Patrick, he decides to give it a shot.

The owner of the Krusty Krabb, Mr Krabbs, gives Spongebob a task that he has to do before he gets the job.

Spongebob goes out to do this task, but as he leaves, 5 buses full of anchovies come storming in the Krusty Krabb.



### Jigworks



## Compensatory Assistive Technology

- For many older students, getting through their workload becomes more important than developing reading and writing.
- Compensatory programs can assist them to do this.



## Remediation vs Compensation



Edyburn (2006) <http://www.uwm.edu/~edyburn/L%26L2006.pdf>



## Compensatory Reading Tools

- Kurzweil 3000
- TextHELP Read & Write
- Word Q/Speak Q
- ClaroRead
- Solo Suite, including Co:Writer
- CapturaTalk



## TextHELP Read & Write Gold

