

Connecting Research to Practice

October 17, 2013

Chicago, IL

Moderator

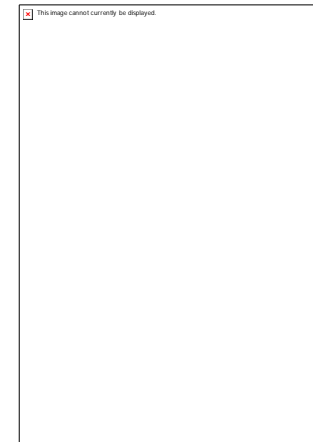
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COLLEGE CHICAGO

Education



Children With Special Needs

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Facebook group: iPad Apps and Info for Special Kids



Using Technology to Differentiate for Advanced Learners

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Technology and Early Literacy

Katie Paciga

Teaching Literacy Skills, Digitally


- Foundational Skills
 - Phonological Awareness
 - Alphabet
 - Letter-sound correspondences/Phonics
 - Word recognition
- Fluency
- Comprehension
- Vocabulary
- Writing

Tumblebooks

TUMBLEPAD

Are you kidding me?
It's totally a duck.

It's for sure a rabbit.



Help Off

Auto

Manual

Navigation icons: back, play, forward, volume, and a red 'Auto' button.

Example at Palatine Public Library

The screenshot shows the Palatine Public Library website. At the top left is the library logo with the text "LIBRARY DISTRICT". To the right is a search bar with "Search:" and buttons for "Catalog" and "Site". Further right are links for "Locations", "Contact Us", and "My Account". Below the search bar is a "Go" button and a link to "Classic Catalog". A blue navigation bar contains buttons for "Home", "About Us", "Books, Movies & Music", "Events", "Research", "Digital Media", "Kids", and "Teens". The "Kids" button is highlighted. The main content area has a light blue sidebar on the left with a "Kids" heading and a list of links: "Kids Home", "KidStuff", "Homework Help", "Fun & Games", "Books, Movies & Music", "Personalized Book List", "School Reading Lists", "Events", "Museum Adventure Pass", "Early Literacy Station", and "Teacher Resources". At the bottom of the sidebar is a "Click here for TumbleBooks™" button with a book icon. The main content area has a breadcrumb trail "Home » Kids » Blog" and a "KidStuff" heading. Below this is a paragraph: "Explore, imagine, dream... let us introduce you to Library materials and programs that are just right for you!" followed by a "Subscribe." button with a RSS icon. A dashed line separates this from a blog post titled "Proud Summer Readers" by DanaM, dated October 10, 2013. The post includes a photo of children and text describing a summer reading program. A "More" link is at the end of the post. Below the post is a green bar with "Comments: 0". At the bottom, a "Youth Fiction Review: Counting by 7s by Holly Goldberg" is partially visible.

LIBRARY DISTRICT

Search: Catalog Site Locations Contact Us My Account

Go Classic Catalog

Home About Us Books, Movies & Music Events Research Digital Media Kids Teens

Home » Kids » Blog

KidStuff

Explore, imagine, dream... let us introduce you to Library materials and programs that are just right for you!

Subscribe.

Proud Summer Readers

Posted by: DanaM | Posted on: October 10, 2013

These school children were proud to show off the hard work they did this summer to earn their Summer Reading t-shirts. This year's program was a huge success! 4816 people participated and 3080 people received t-shirts. 134 families earned the Household Incentive prize. Way...

More »

Comments: 0

counting Youth Fiction Review: Counting by 7s by Holly Goldberg

One More Story

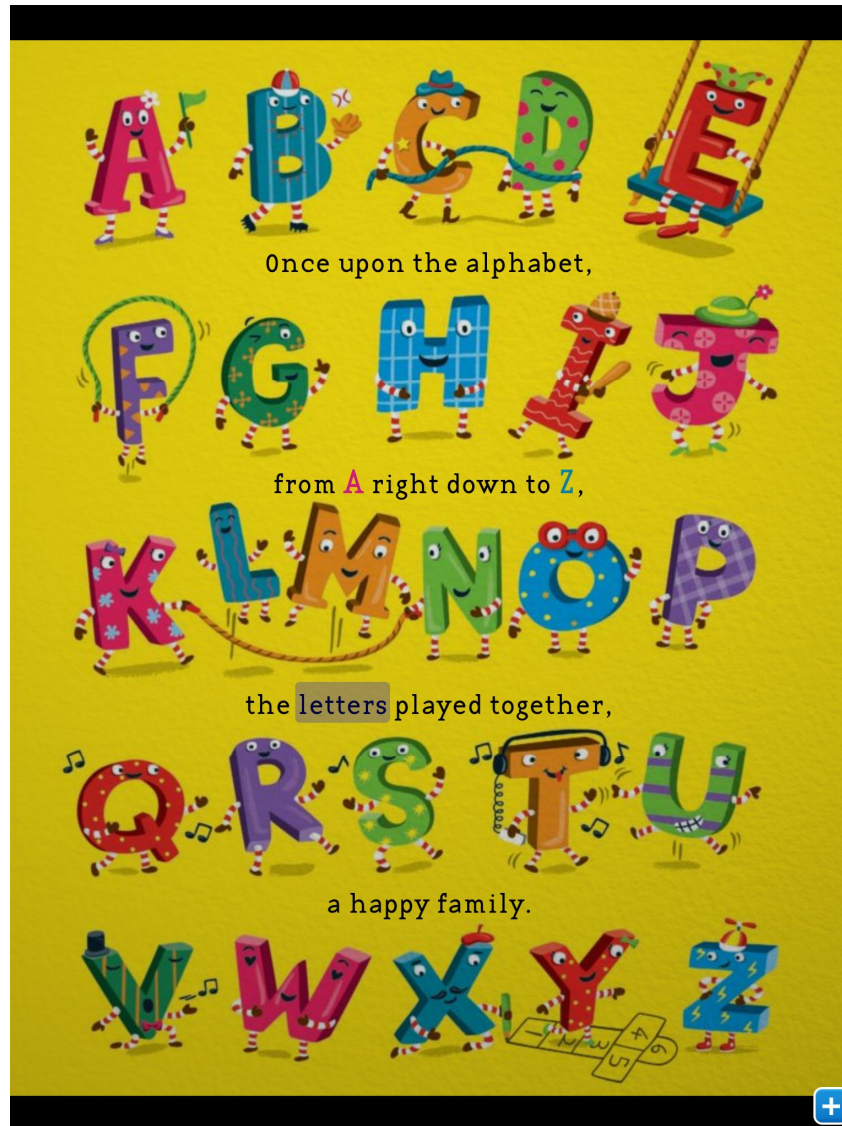
One More Story: Authors You Know, Books You Love! An Online Reading Experience.



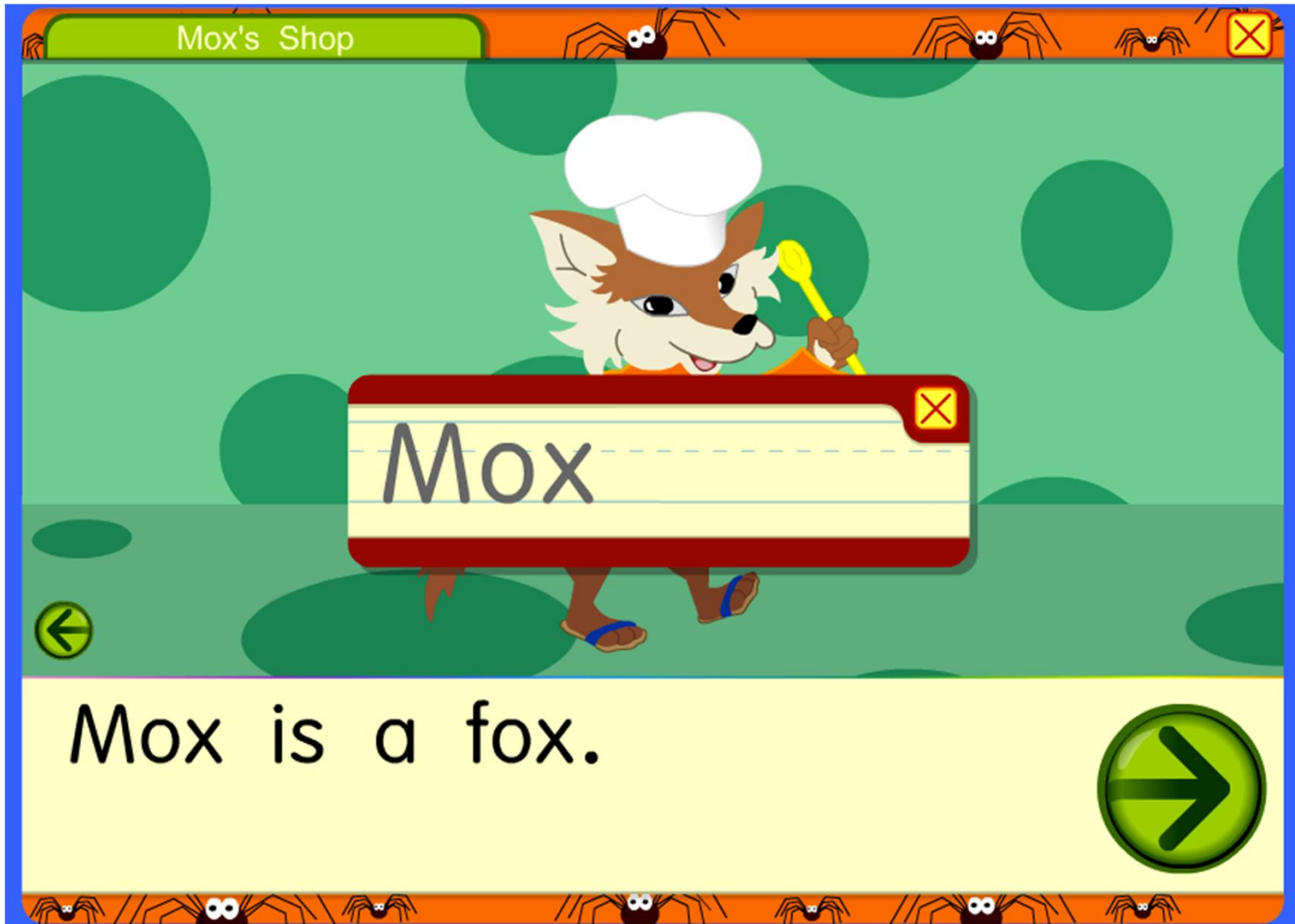
⦿ He saw a boy playing with **his** dog.



Storia



Starfall



Mox's Shop

Mox

Mox is a fox.

The screenshot shows a colorful interface for the Starfall app. At the top, there is a green header with the text "Mox's Shop" and a yellow close button. Below the header, a cartoon fox character named Mox, wearing a white chef's hat and blue sandals, is holding a yellow spoon. In front of him is a red-bordered sign with the name "Mox" written in a simple font. The background is green with large green circles. At the bottom, there is a yellow bar with the text "Mox is a fox." and a large green arrow button pointing right. The interface is decorated with small spider icons along the top and bottom edges.

Tenets of Shared Reading

- Demonstrate the PURPOSES for reading eBooks
- Scaffold for text navigation
 - Desktops/laptops require different kinds than tablets
 - Margins of error & child's level of frustration as related to engagement
- Use comprehension asides and vocabulary supports
- Seek out rich, thought-provoking content (if your purpose is to develop literary or content-area knowledge)

"Three Little Pigs"



I'm tired already.

The three little pigs went on their way.

Multiple Exposures/Experiences

- Young children don't walk away from a singular story-listening experience with much comprehension
- Some abandon the listening experience when left unassisted – Too hard to navigate? Uninterested in content? Does not align with their conceptions of what we “do” with screens?
- eBooks that have games & hotspots encouraged more “playing” than reading in the 2nd, 3rd book reading experiences

"Hiku"



"Pat the Bunny"

There are ducks
in the pond.

Make them swim
back and forth.

Tap "RECORD" to begin. Read the highlighted text, tap "NEXT" to continue.

BACK RECORD PREVIEW RESET NEXT

PAGES RECORDED: 0 of 14

Stand – alone app “MSB: Oceans”

"A coral reef makes a good home for many ocean plants and animals," said the Friz.



We saw crabs and lobsters, huge eels and octopuses, slimy sea slugs and spiny sea urchins, and the most colorful fish in the world.

Sea Hare



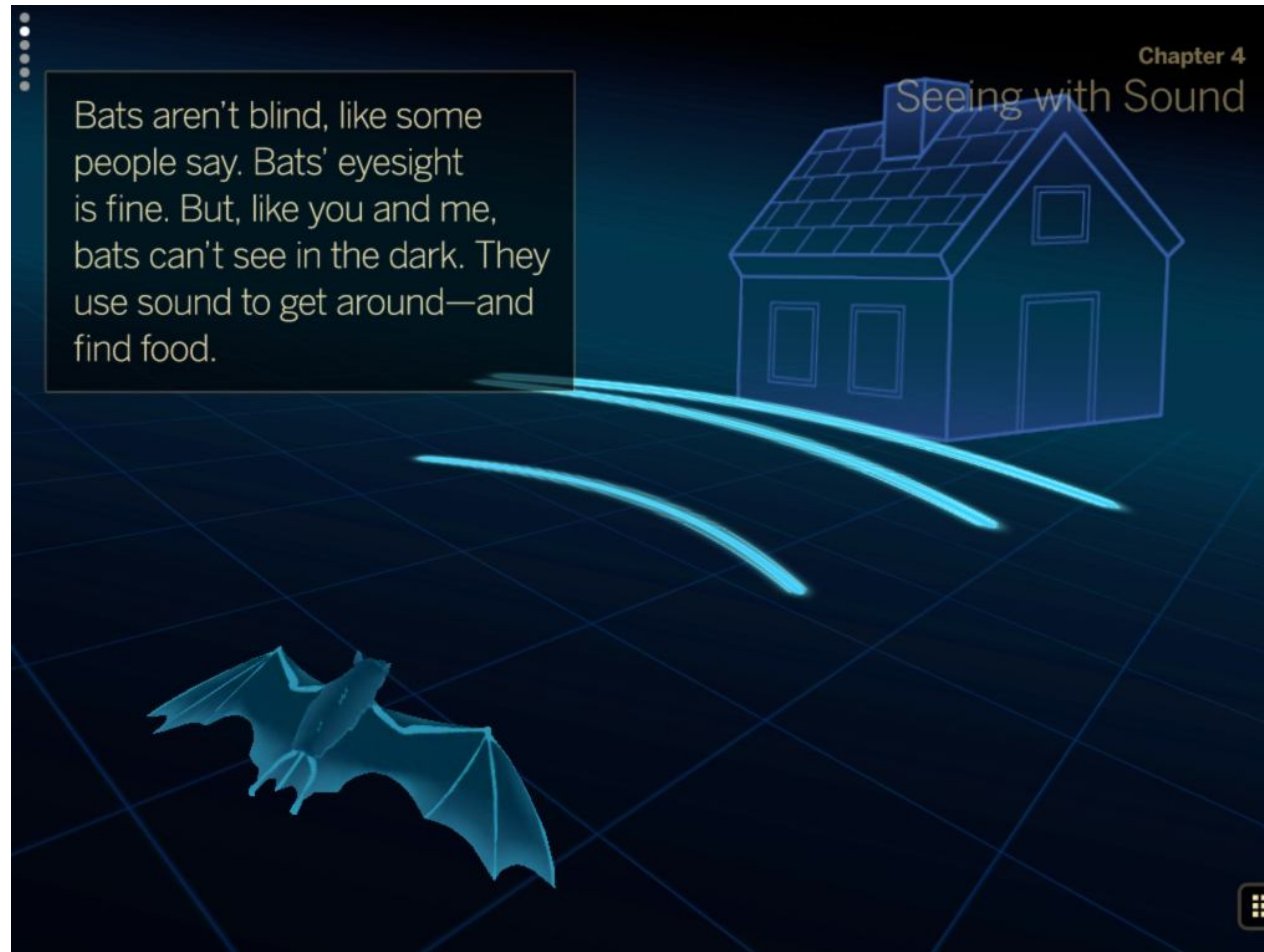
- Sea hares are a kind of sea slug.
- A sea hare's color matches the color of the seaweed it eats.
- They can release a colorful ink into the water to hide from predators.

© John Brooks/NOAA

Back



“Bats! Furry Fliers of the Night”



Tips for Sharing eBooks

- You do the reading to better control the pace
- Talk through
 - Navigation
 - How the different features embedded into eBook impact your meaning-making process.
- Big screens function like big books
 - Document cameras
 - Apple TV
 - Dongle to connect iPad to overhead projector
 - When above doesn't work, share like you would a normal sized book or resort to smaller-group contexts
- Make eBooks as you learn about them

Children with Special Needs

Tamara Kaldor

The iPad, and now the android tablet, is the single most important advancement in the last century for people affected with developmental disabilities.

It is allowing children to **PLAY** who were never able to before

Is there an app for?

- Meaningful conversation
- Inclusion in learning and social environments
- Social-Emotional Learning (SEL)
- Emotional Regulation
- Playdates: Creating real friendships
- Imaginative play

How do you move from isolation towards relating and communicating?

- Providing educators, therapists and parents with the skills to use iPads/tablets as a necessary tool rather than a reward
- Turning the child into “the maker” role is creating a generation of problem-solvers
- Many terrific applications go beyond those designed for special education Ex: Pages and Keynote

8 Favorite apps

- **Choiceworks** (visual schedules + emotional regulation w/feeling boards)
- **HD Timer** (best visual timer)
- **Kid in Story** (social story where you can insert a child)
- I use **Keynote** and **iBook** (create social stories quickly)
- **Toca Boca Tea Party and the other Toca apps** (great for working on following directions + pretend play)
- **My Playhome** (pretend playhouse)

*Using Technology to Differentiate
for Advanced Learners*

Ann Gadzikowski

CTD Leapfrog Program

- PreK-Grade 3
- Eligibility based on developmental evaluation of verbal and nonverbal ability
- Not yet “gifted”
- Includes twice-exceptional learners



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Examples of Leapfrog Courses

- Pirates & Treasures
- Math for Spies
- Brain Surgery
- Rocket Science
- Zoo Vets
- Building Bridges
- Open Your Own Restaurant
- Whale Talk
- Blocks & Blueprints
- Kitchen Chemistry



Surprise!

- The Zone of Proximal Development may be much wider and deeper than you expect.



Big Idea: Differentiation

- Technology helps teachers differentiate to meet the individual needs of each learner.



Web Fluency for Teachers

- Teachers need immediate access to advanced content.
- Examples: Plumbing, birds, triangles



Critical Thinking Online: Evaluating Web Sites

- Who is the author?
- Who is the publisher?
- When was this written?
- What are the sources?

Tried & True Teacher Sources

- PBS STEM Education Resource Center

<http://www.pbs.org/teachers/stem/>

- National Geographic

<http://www.nationalgeographic.com/>

- Kahn Academy – Math

www.khanacademy.org

Child-Centered Differentiation

Think about your most advanced learners when making tech decisions.

- Can the child control and accelerate the pace?
- Can the child control and advance the content?
- Are deeper levels of complexity available?

Technology as a Subject Area

- Animation:
www.scratch.mit.edu
- Robotics
- HTW:
Engineering



Technology as a Gender Issue

- “Girl Power” technology
- More than just equal access –
Encouragement & modeling



Managing Technology

- The challenge of multi-site programs
- Technology as a moving target
- Teachers need “Site-Specific Technology Guides”



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