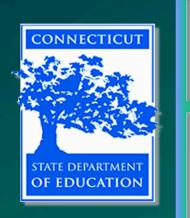
# Intentional, Appropriate, and Effective Uses of Technology: Tools to Transform Learning and Early Development

Dr. Mark Bailey

Handout At:







http://fg.ed.pacificu.edu/cldc/baileytww14handouts

## Intentional, Appropriate, & Effective Uses of Technology: Beginning Thoughts

- It is not all about technology
- Teach to make a difference; to change the world
- Advocate for equity & social justice
- Empower your students
- Active learning, projects & play

Monday, March 31, 2014

NO More hurting People.



# Mark Bailey Distinguished University Professor Pacific University



### Early Learning Community



ECE Teaching & Learning Environment Pacific University College of Education Forest Grove, Oregon <a href="http://fg.ed.pacificu.edu/elc">http://fg.ed.pacificu.edu/elc</a>





## Intentional, Appropriate, & Effective Uses of Technology: Overview

- Teaching, Learning, DAP and Technology
- Listen, Go Deep, and Empower
- Exploring Digital Tools
- Case study
- Best Practices



### What is Technology?

- Tools that empower, enhance, & transform
- Digital technologies defined
- Technologies across time



### Historical Context



### Educational Technologies:

- Reflective of scientific innovation
- Based on learning theory
- Framed by pedagogy
- Implemented with intentionality by teachers

Pacific University Oregon

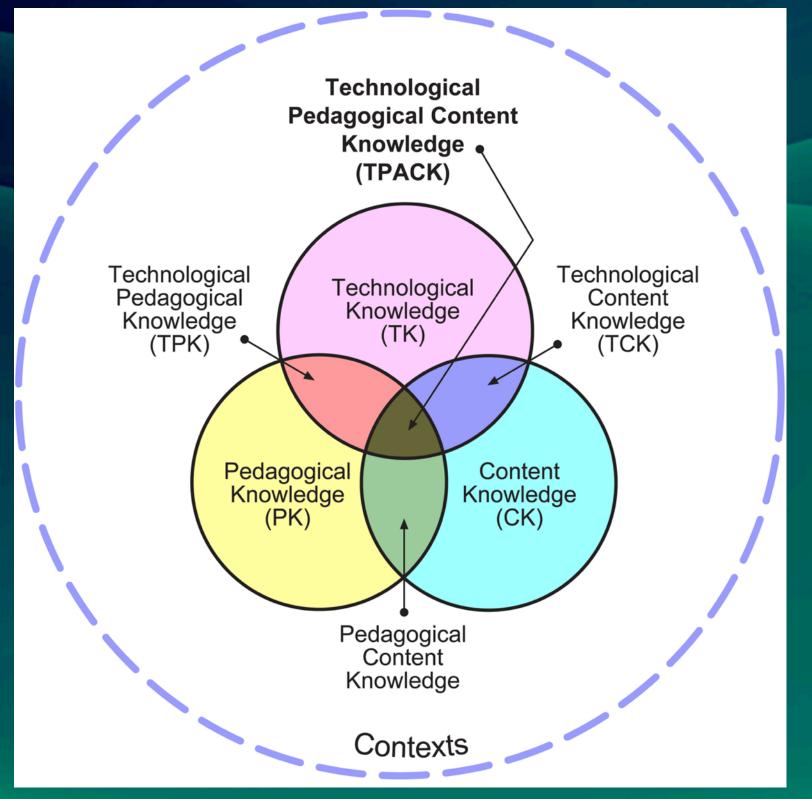
It's not the technology, it's how you use it.



### Begin with Development and Pedagogy

- Constructivist learning theory
- Best practice pedagogical methods
- Thoughtful intentional teachers
- Student-centered curriculum
- Technology as one of many learning tools

Apply TPaCK
Technological
Pedagogical
Content Knowledge



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Recognize
Taxonomically
Hierarchical
Applications

#### The SAMR Model

enhancing technology integration

Ruben R Puentedura, Ph.D.

Redefinition

technology allows for the creation of new tasks, previously inconceivable

create a narrated Google Earth guided tour and share this online Transformation

**Modification** 

technology allows for significant task redesign

use Google Earth layers such as panoramio and 360 cities to research locations

Enhancement

Augmentation

technology acts as direct tool substitute, with functional improvement

use Google Earth rulers to measure the distance between two places

Substitution

technology acts as a direct tool substitute, with no functional change

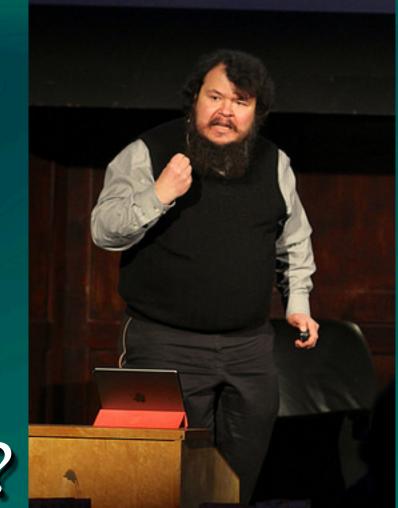
use Google Earth instead of an Atlas to locate a place

examples added by the Digital Learning Team

http://www.hippasus.com/rrpweblog/

### SAMR: When considering technology:

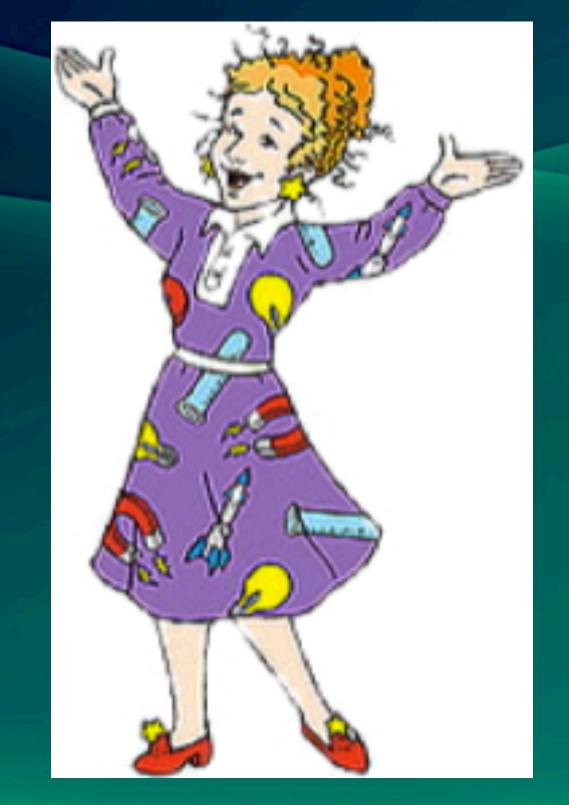
- What is gained with new tool?
- Is there functional improvement?
- Is this task a significant redesign?
- Are there newly conceivable tasks?



Puentedura (2014)



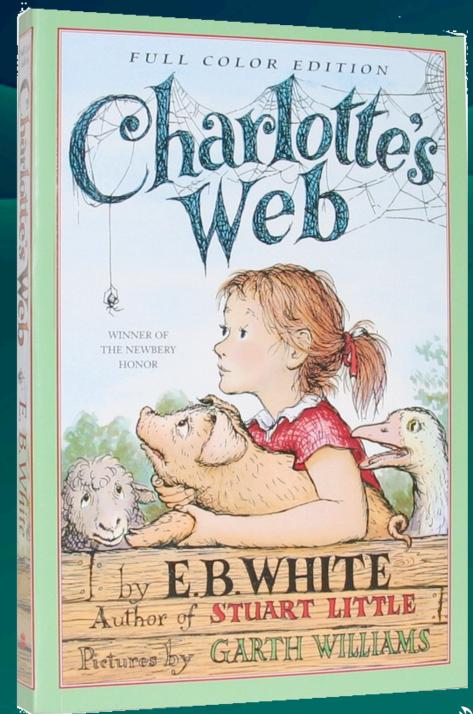
Teach Your Heart Out





### Imagine a technology:

- portable device
- single user (most frequently)
- user generally uncommunicative
- steep learning curve (years to mastery)
- not upgradable
- can precipitate deep change in user





#### Screen Time:

- Its not eyes on screen,
   but students' actions
- Passive is problematic
- Tassive is problematic



Active engagement, same as any tool



#### Screen Time:

- Be intentional
- What does it add
- Child controls



http://www.educationnews.org

Visual system development





http://www.youtube.com/watch?v=kPLdClhAU8U







We Are the Nightmare

**Best Practices** 

Become Familiar with NAEYC/FRC Technology Position Statement

POSITION STATEMENT ADOPTED JANUARY 2012

A joint position statement of the National Association for the Education of Young Children and the Fred Rogers Center for Early Learning and Children's Media at Saint Vincent College

Technology and Interactive Media as Tools in Early Childhood Programs Serving Children from Birth through Age 8

elevision was once the newest technology in our homes, and then came videos and computers. Today's children are growing up in a rapidly changing digital age that is far different from that of their parents and grandparents. A variety of technologies are all around us in our homes, offices, and schools. When used wisely, technology and media can support learning and relationships. Enjoyable and engaging shared experiences that optimize the potential for children's learning and development can support children's relationships both with adults and their peers.

Thanks to a rich body of research, we know much about how young children grow, learn, play, and develop. There has never been a more important time to apply principles of development and learning when considering the use of cutting-edge technologies and new media, when the integration of technology and interactive media in early childhood programs is built upon solid developmental foundations, and early childhood professionals are aware of both the challenges and the opportunities, educators are positioned to improve program quality by intention-

Interactive media refers to digital and analog materials, including soft-ware programs, applications (apps), broadcast and streaming media, some children's television programming, e-books, the Internet, and other forms of content designed to facilitate active and creative use by young children and to encourage social engagement with other children and adults.

ally leveraging the potential of technology and media for the benefit of every child.

This statement is intended primarily to provide guidance to those working in early childhood education programs serving children from birth through age 8. Although not developed as a guide for families in the selection and use of technology and interactive media in their homes, the information here may be helpful to inform such decisions.

NAEYC and the Fred Rogers Center do not endorse or recommend software, hardware, curricula, or other materials.



Technology and Interactive Media as Tools in Early Childhood Programs Serving Children from Birth through Age 8

### Supports:

- child initiated,
- child directed,
- teacher supported,
- play with digital devices





### Effective uses of technology and media:

- Match developmental level
- Are active, engaging & hands-on
- Give the child control
- One of many options



When used appropriately

- Playful, foster co-engagement
- Extends learning
- Supports not supplants essential activities
- Helps children save, document, revisit, & share
- Supports creativity, exploration, & active play



### Intentionality is Key

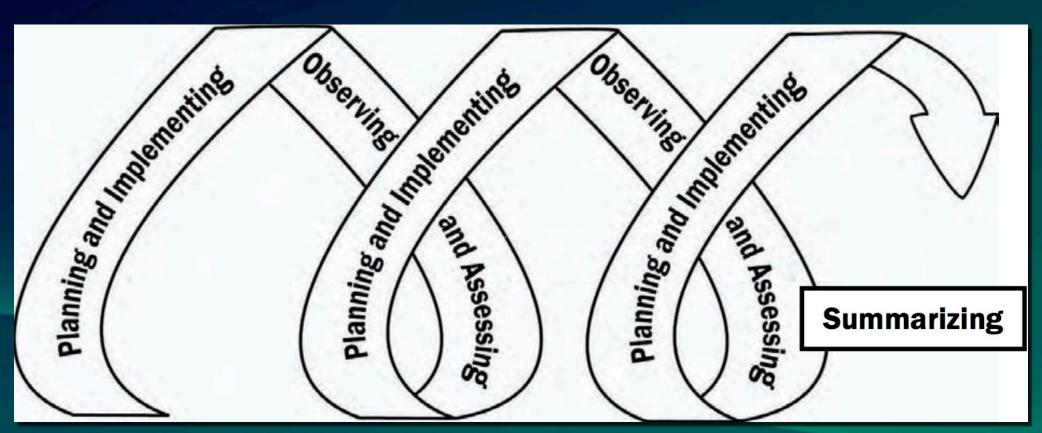
- Consider your goals.
- Will a digital tool add value?
- Does technology extend learning in ways not otherwise possible?
- Observe, assess & reflect





**Best Practices** 

# Cycle of Intentional Teaching





www.sde.ct.gov/sde/lib/sde/PDF/DEPS/early/TW.pdf



www.sde.ct.gov/sde/lib/sde/PDF/DEPS/Early/Preschool Assessment Framework.pdf

### Universal Design For Learning

I. Provide Multiple Means of Representation	II. Provide Multiple Means of Action and Expression	III. Provide Multiple Means of Engagement
Perception	Physical action	Recruiting interest
Language, expressions, and symbols	Expression and communication	Sustaining effort and persistence
Comprehension	Executive function	Self-regulation

How can we design learning experiences to universally support the needs of learners?



Universal Design For Learning

- Learning needs and preferences
- Tools for differentiation



### In summary, teachers ask:

- What are the objectives?
- Which tools best support objectives?
- How can tools be used appropriately?
- How can we use them intentionally?
- What will tell me they are being effective?

Pacific Jniversity Oregon

This approach has always been the hallmark of good teaching





### Questions? How are we doing?





#### Intentional, Appropriate, & Effective Uses of Technology:

### Listen, Go Deep, Empower

- Start with students' needs & interests
- Extend, enhance, & transform (SAMR)
- Integrate thematically



# Intentional, Appropriate, & Effective Uses of Technology: Exploring Digital Tools

- Microscopes
- Tablet Computers
- Cameras
- Whiteboards
- Assorted Software
- Assorted Hardware





### Exploring Digital Tools: Microscopes

### Microscopes:

Empowering New Perspectives

- Wired, wireless, or affixed
- Computer screen
- Intentional provocation
- Visually interesting realia



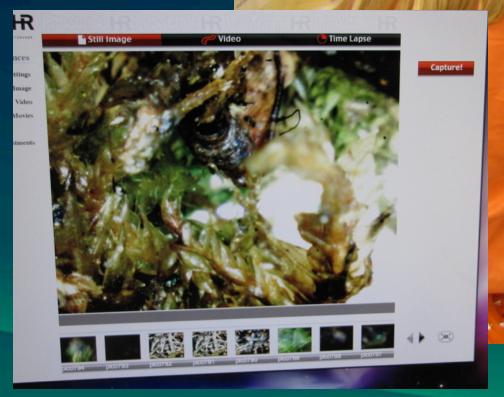
### Exploring Digital Tools: Microscopes

Proscope HD





- Need computer
- Tied to place
- Least expensive





### Exploring Digital Tools: Microscopes

Proscope Mobile Wireless Need iPad Portable, network

## Exploring Digital Tools: Microscopes Proscope Mobile





# Exploring Digital Tools: Microscopes Proscope Micro-Mobile

### Proscope Micro Mobile

- iPad, iPhone, iTouch
- Attaches to lens
- 20x 80x
- Displays as photo/video
- One scope, different sleeves



# Exploring Digital Tools: Microscopes Proscope Micro-Mobile



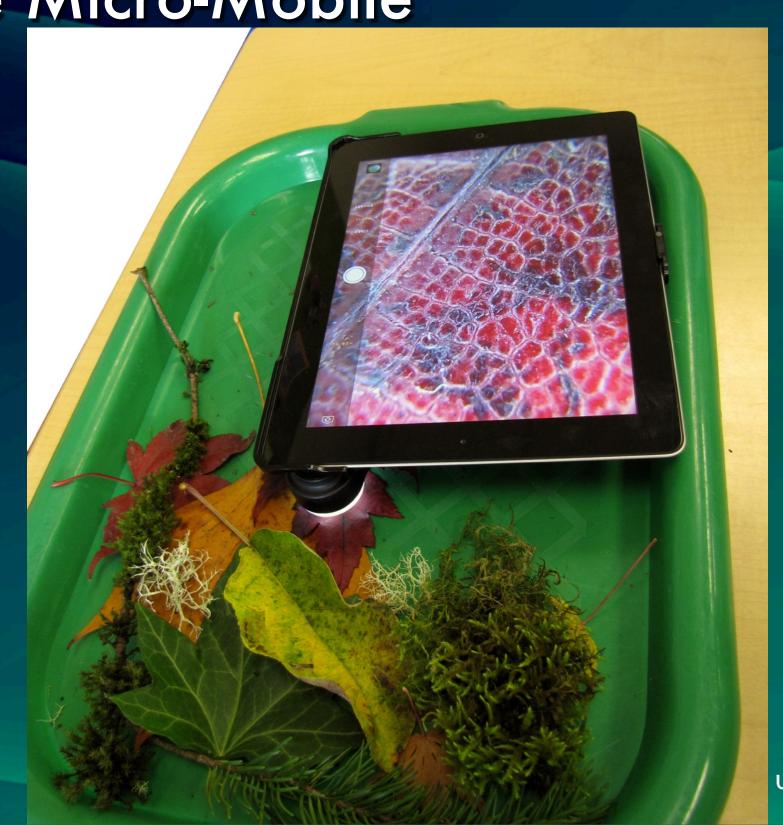




#### Exploring Digital Tools: Microscopes

Proscope Micro-Mobile







## Exploring Digital Tools: Microscopes Proscope Micro-Mobile

#### Provocation:

In what ways does the surface of a leaf, look the same and different from the surface of your skin?



#### Exploring Digital Tools: Microscopes

### Microscopes: Quintessential ECE Tool

Effective in supporting wondering

- Extend authentic learning
- Empower exploration
- Multiple platforms
- Inherently motivating
- Not inexpensive



# Exploring Digital Tools: Tablets Hand-held Computing

# Handheld: Child-Friendly Format

Multiple platforms: tablets, pods & phones

- Portable
- Small and manipulable
- Supports range of software



#### **Exploring Digital Tools: Tablets**

Intentional Use

Tablets: The Children's Machine





# Exploring Digital Tools: Tablets Hand-held Computing

### Quality Tablet Software

- Reconceptualizing Books & Reading
- Digital Storymaking
- Spatial/Creative
- Multidimensional and Assistive
- Intentional Use







# Exploring Digital Tools: Tablets Reconceptualizing Books



Aunt Annie's alligator . . . . . . . .

A .. a .. A

- ABC Book
- Hop on Pop
- The Monster at the End of the Book
- Cinderella
- Numberlys
- Just Grandma & Me and many more

## Exploring Digital Tools: Tablets New Generation of Books



Walking slowly inside he discovered the most mysterious and inviting room he had ever seen. It was filled with the fluttering of countless pages, and Morris thought he could hear the faint chatter of a thousand different stories, as if each book was whispering an invitation to adventure.

The Fantastic
Flying Books of
Mr Morris Lessmore

Interactive
Animated
Hyperbooks



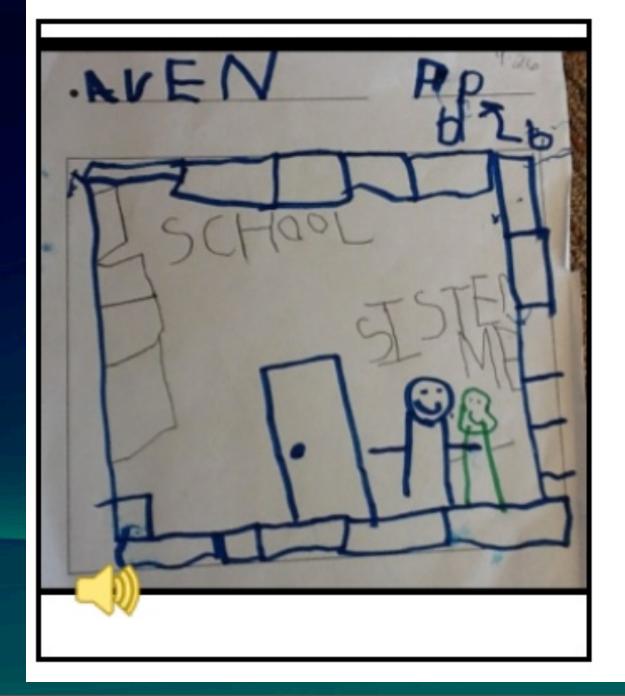
Multiple Apps: Empowering Voice Through Storymaking



#### **Exploring Digital Tools: Tablets**

Literacy

#### School and Sister and Me



#### Storykit

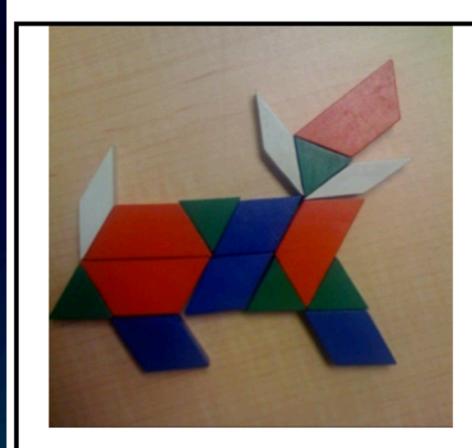
Audaturesrding: "Aphgetime ago my sisterand me went to the ELC and it's the one we're in eight now and WhatiQame out a lot of timexhe would pick me up antwebyshadtalblegether."

### Using StoryKit

- Create story
- Illustrate or capture photo
- Type or write captions
- Record Audio
- Share



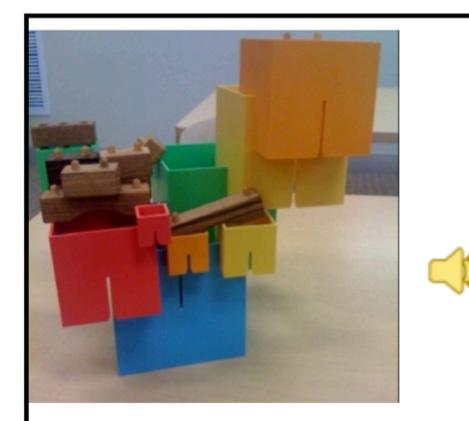
#### The Princess The King And The Dog



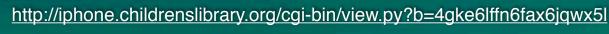
Wunc upon atim ther was a dog nam fin







They wnt on a wok urwnd the kasl.
Thn tha wnt hugre. Thn tha wnt for a pinik. The dog had dog fud the prncus had humn fud. The end





#### Features

- Drawing as movie
- Audio narrative
- Exportable video

### Doodlecast

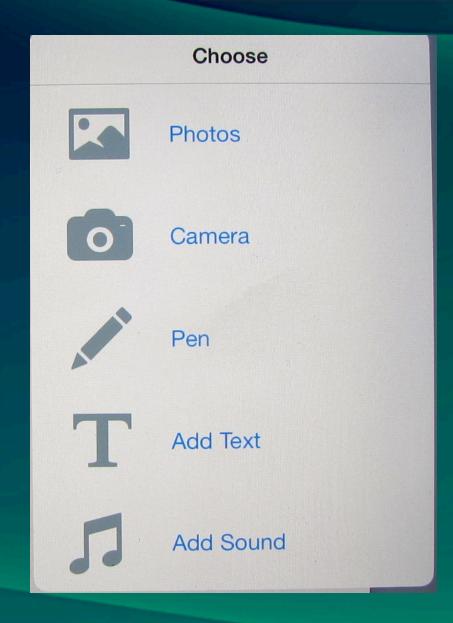




#### Features

- Photos
- Drawing
- Audio
- Text
- Exportable formats

### **Book Creator**







#### **Exploring Digital Tools: Tablets**

Literacy

### Storymaking Apps

- Inspire creativity
- Extend learning
- Support sharing
- Create connections
- Empower narrative



# Exploring Digital Tools: Tablets Spatial/Creative

Foldify: Exploring
Dimensionality



### Foldify





# Exploring Digital Tools: Tablets Spatial/Creative

## Using Foldify

- Design a structure
- Print
- Cut and fold
- Play



# Exploring Digital Tools: Tablets Spatial/Creative

### Evaluating Foldify

- Promotes creativity
- Fosters collaboration
- Extends numeracy
- Inspires play
- Encourages problem-solving





### Tapikeo:

AAC and Multidimensionaly Creative Tool

- Social stories
- Augmentative & Alternative Communication
   Visual Schedules
   Memory Aids
   Labels & Items

## Tapikeo HD





### Requires:

- Application
- iPad, iPhone, iPod Touch
- Computer for Sharing





#### In Classroom:

- Create Grid
- Photograph & document
- Add sound
- Share





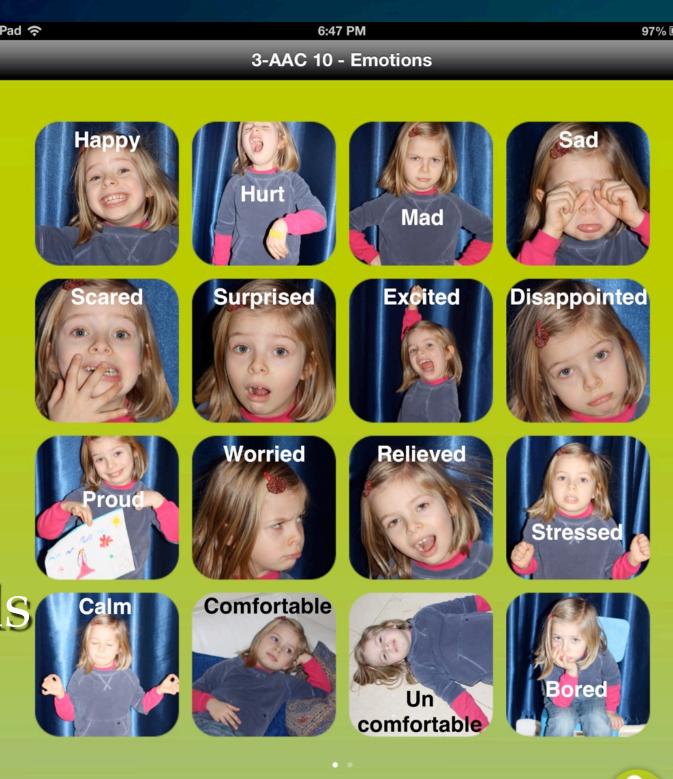




Augmentative Alternative

Communication

- Storyboards, Pictureboards
- Flashcards
- Match pictures to words or sounds



Storymaking







Dragons live forever and princesses



Texitli



My castle



I'm working hard on it



Castle



Treasure chest box

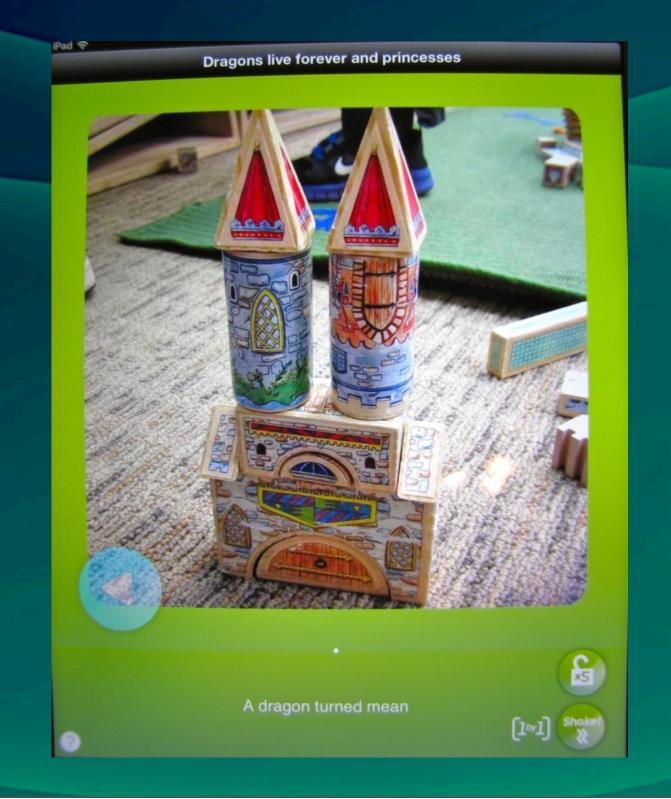


A dragon turned mean



### Evaluating Tapikeo

- UDL & Assistive technology
- Extends & supports work
- Scaffolds Adaptive Complexity
- Encourages sharing & revisiting



# Exploring Digital Tools: Tablets Intentionality

## Tips for Introducing Tablet Computers

• Intentionally introduce one app\_at a time

- Allow ample time to explore
- Support collaboration
- Create "Tech Expert" team
- Rule of thirds



### **Exploring Digital Tools: Tablets**

Intentionality

#### iPad Plan

1. Which program will you be using?



2. What will you be learning, practicing, or researching?













3. Will you be collaborating with a partner?







# Exploring Digital Tools: Digital Cameras Supporting Literacy

Digital Cameras:

Documenting, creating, and demonstrating learning



# Exploring Digital Tools: Digital Cameras Supporting Literacy

### Storyography:

Empowering children's voices through multimedia storymaking



## Exploring Digital Tools: Digital Cameras

Supporting Literacy

### Storyography

• Storymaking emerges from imaginative play

- Student directed & documented narrative
- Supported by intentional teacher

#### Requires

- Close teacher scaffolding
- Bookbinding materials
- Digital camera, computer, printer



# Exploring Digital Tools: Digital Cameras Supporting Literacy

#### Process:

- Student creates
- Teacher transcribes
- Student photographs
- Teacher prints
- Book constructed
- Digitized?



Student Creates



Story Dictated

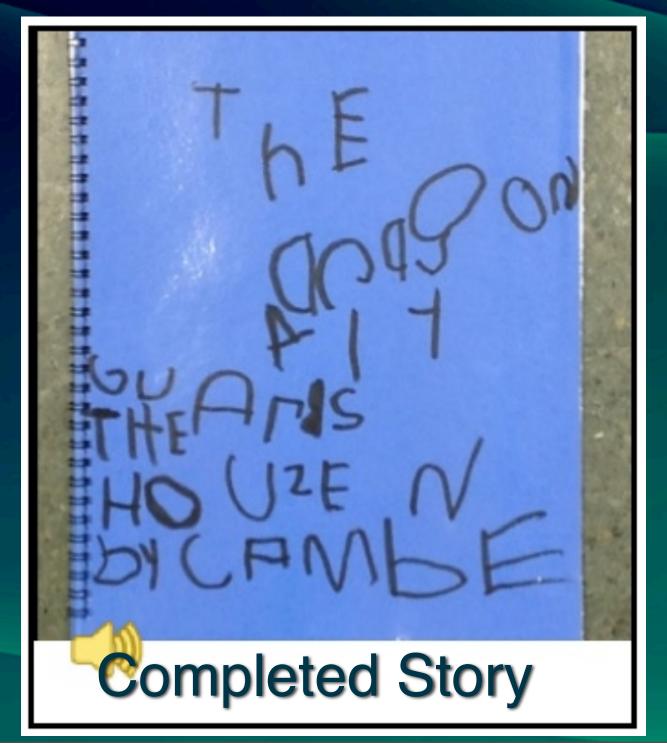


Teacher Scaffolding

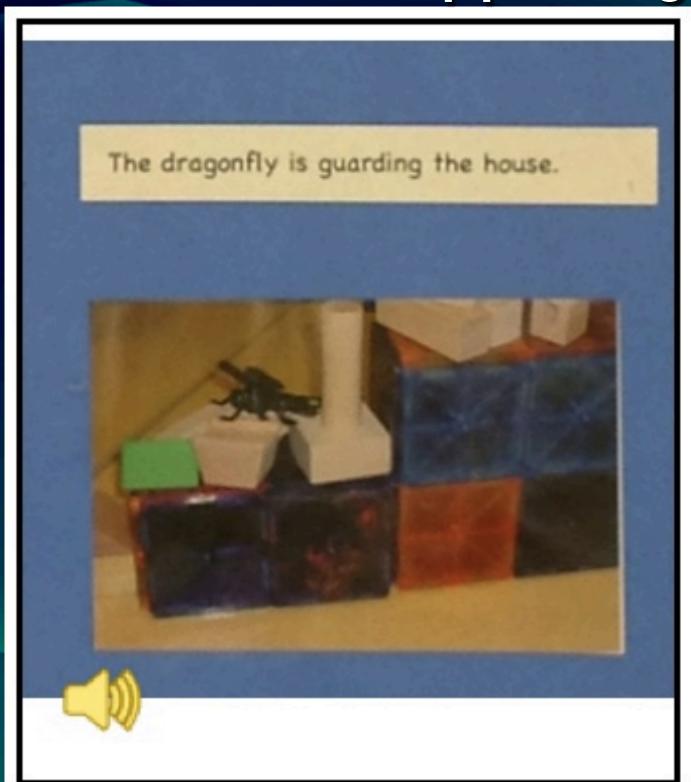


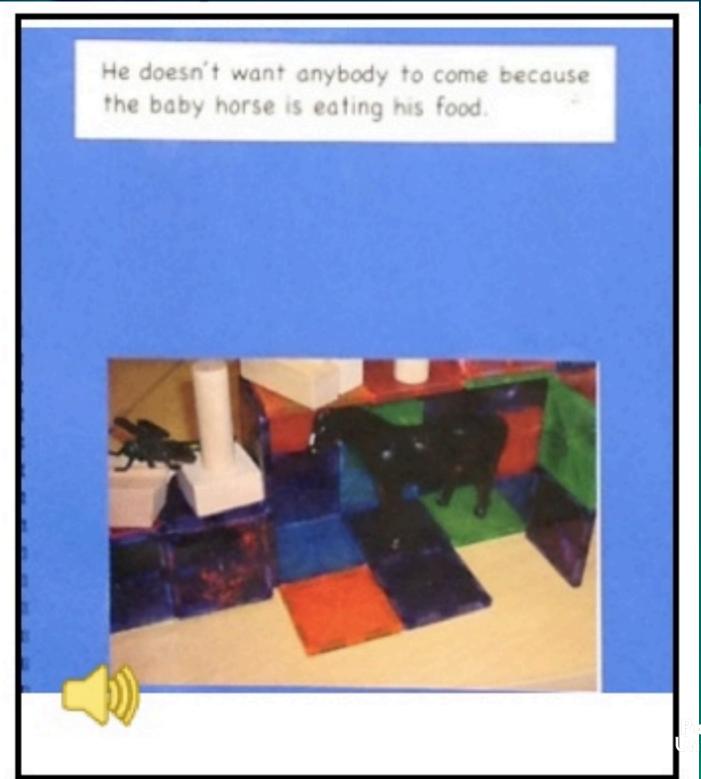
Photographing Each Image













Exploring Digital Tools: Digital Cameras

Supporting Literacy

### Evaluating Storyography

- UDL with adaptive scaffolds
- Effectively inspires literacy
- Extends experiences
- Intentionality & creativity
- Sharing & revisiting



# Exploring Digital Tools: Digital Cameras Supporting Social Studies

Flat Stanley: Cultivating Connections







# Exploring Digital Tools: Digital Cameras Supporting Social Studies

Flat Stanley Process

- Create flat people
- Penpal exchange
- Maps, photos, letters

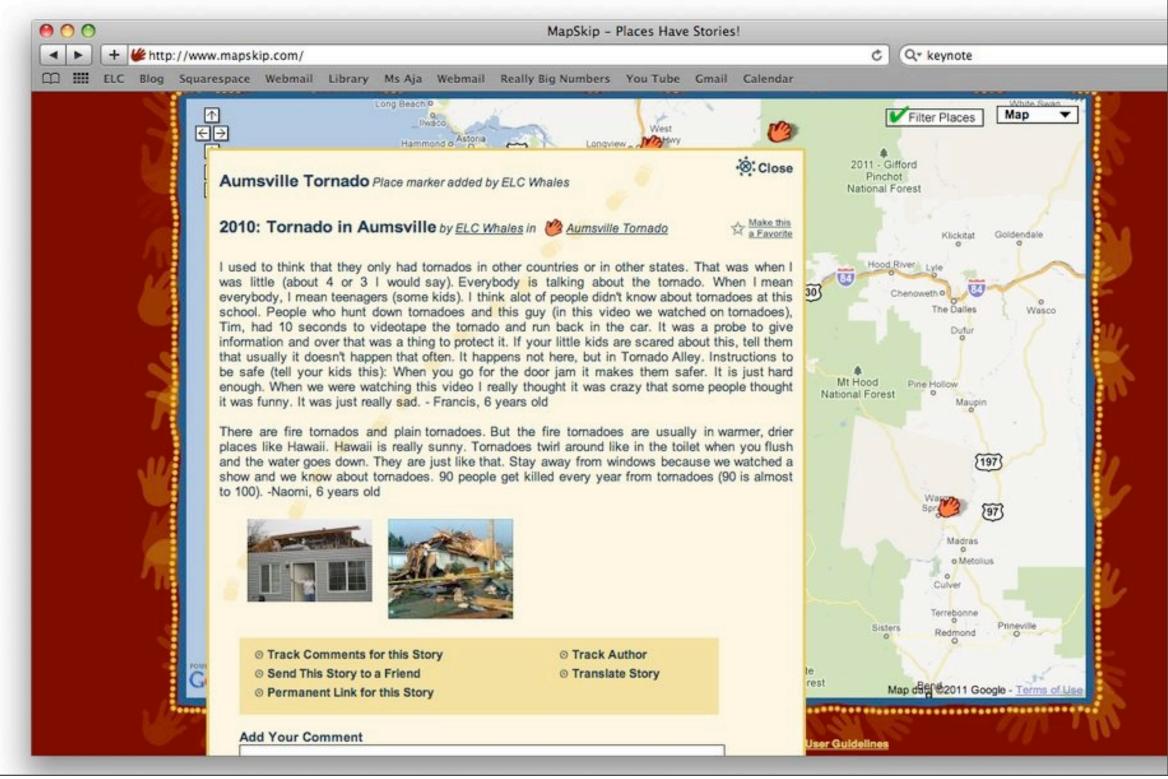
### Requires

- Digital Cameras
- Internet Connection(<u>www.flatstanley.com</u>)



# Exploring Digital Tools: Digital Cameras Supporting Social Studies

MapSkip:
Sharing Our
Adventures



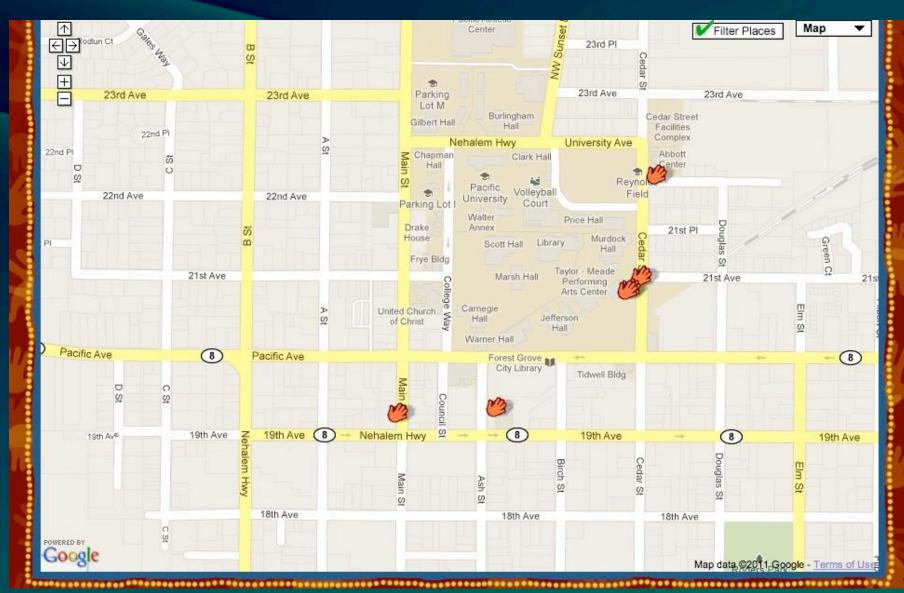
# Exploring Digital Tools: Digital Cameras Supporting Social Studies

### Using MapSkip

- Explore new places
- Upload photos & stories

### Requires

- Computer with Internet (www.mapskip.com)
- Digital camera (optional)





#### Exploring Digital Tools: Digital Cameras

Supporting Social Studies

Evaluating Flat Stanley & MapSkip

- Low-cost high-return project
- Students as documenters
- Fosters social connections
- Empowers exploration
- Invites story sharing
- Ties in with books
- Enhances geo-literacy



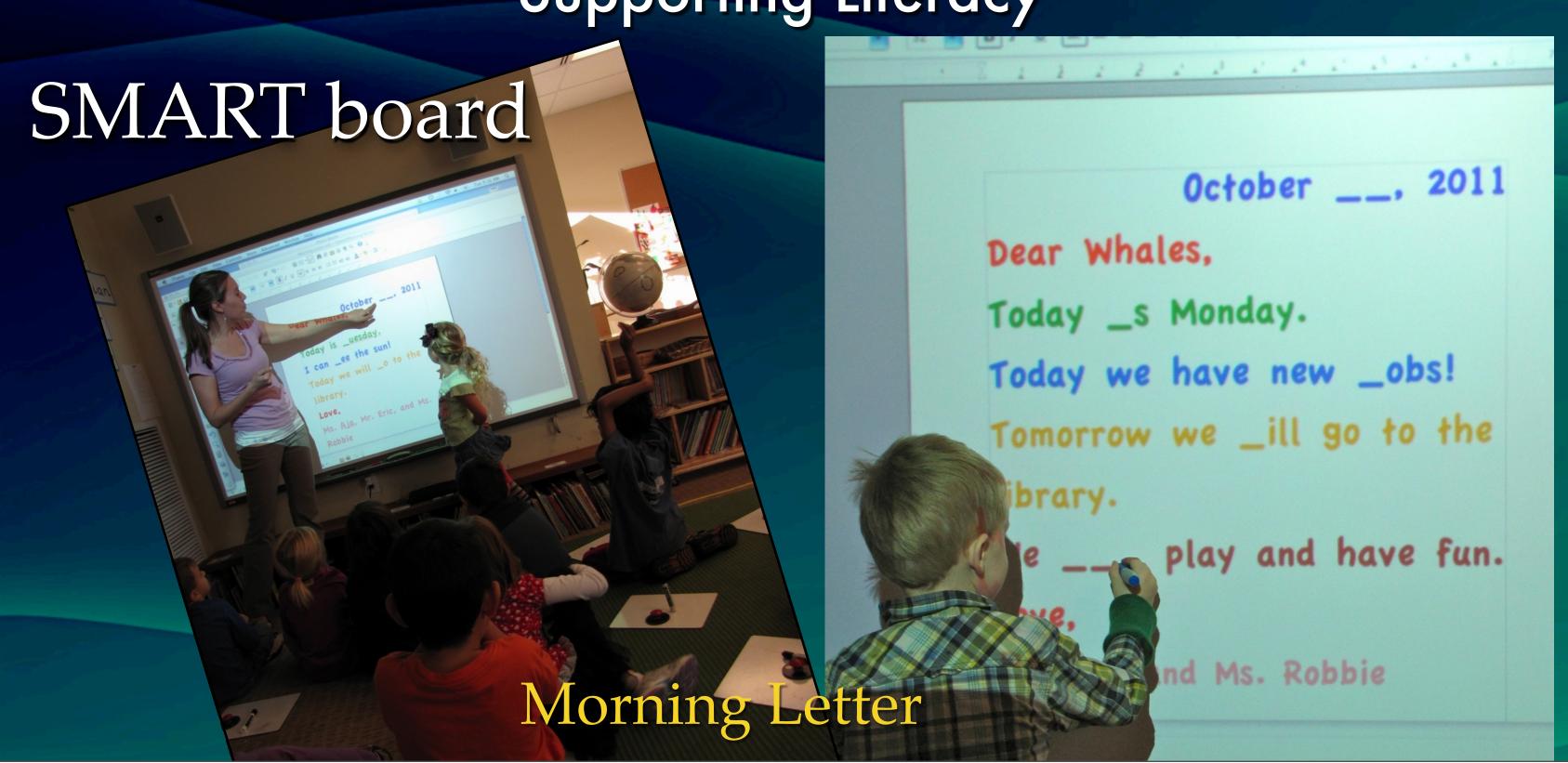
# Exploring Digital Tools: White Boards Supporting Literacy

SMART Board: Fostering Authentic Literacy





# Exploring Digital Tools: White Boards Supporting Literacy



# Exploring Digital Tools: White Boards Literacy

### Requires

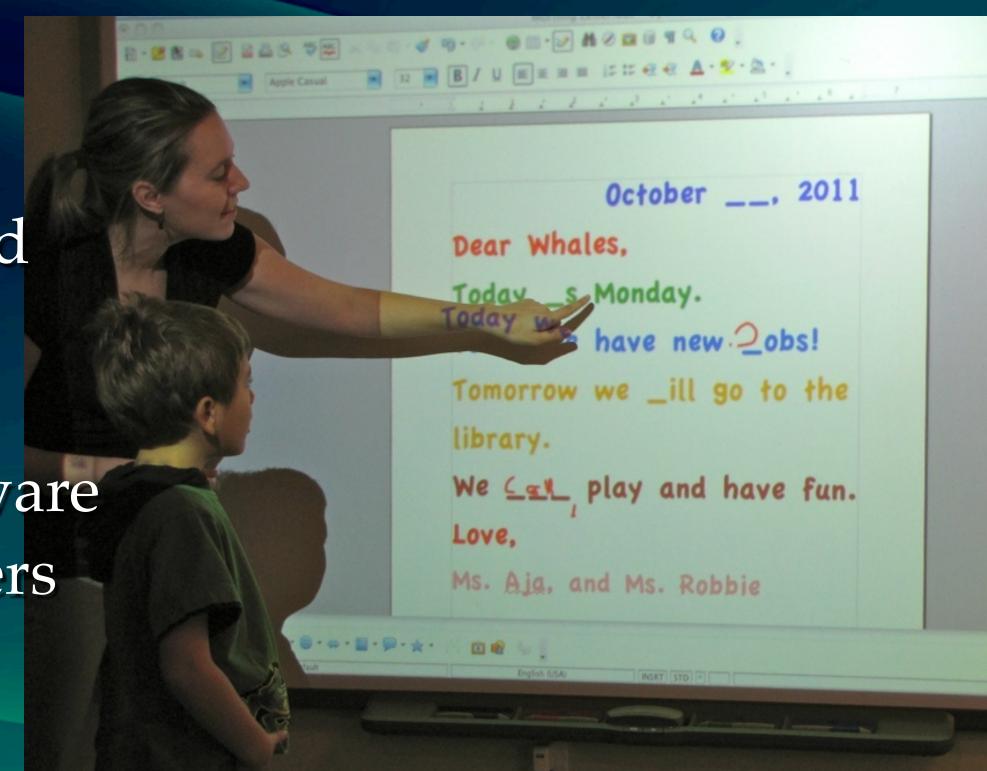
Interactive Whiteboard

Computer

Projector

Smart Notebook software

Whiteboards & Markers



## Exploring Digital Tools: White Boards Literacy

### Using Interactive Whiteboard

- Authentic letter
- Strategic words
- Enticing graphics
- Student leader
- Active engagement



Today is Tuesday.

Yesterday \_\_\_ Monday.



Today is our \_\_ (ninety-third) day of school.





We will \_alk to the library today.



We will get a n\_\_ tool in Writer's Workshop today.

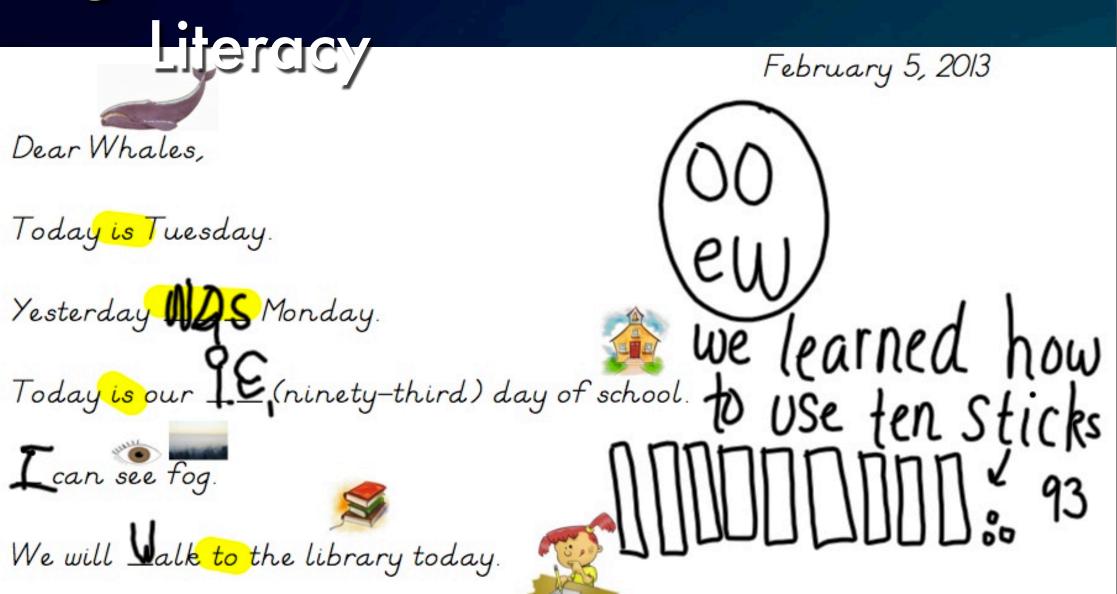


Monday, March 31, 2014

February 5, 201

#### Exploring Digital Tools: White Boards

Save and Revisit Work



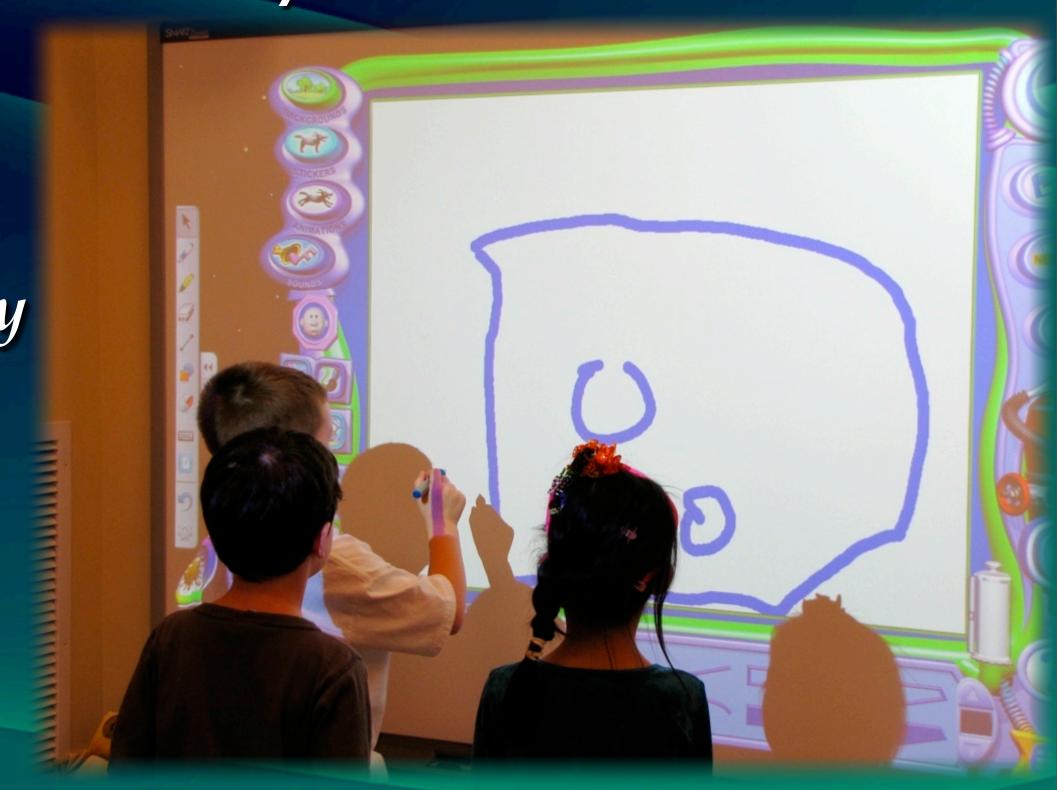
We will get a n E Wtool in Writer's Workshop today.

Love, Ms. Aja and Ms. Lacey

### Exploring Digital Tools: White Boards Literacy

#### KidPix:

Encouraging creativity and collaboration



#### Exploring Digital Tools: White Boards







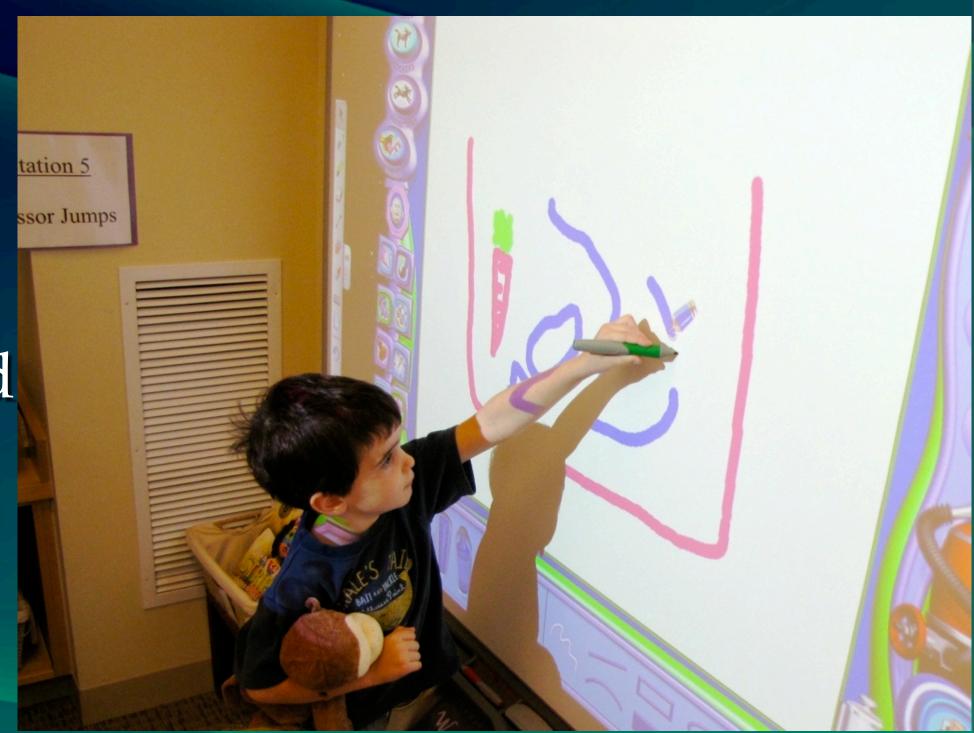
Stone Soup



# Exploring Digital Tools: White Boards Literacy

### Requires

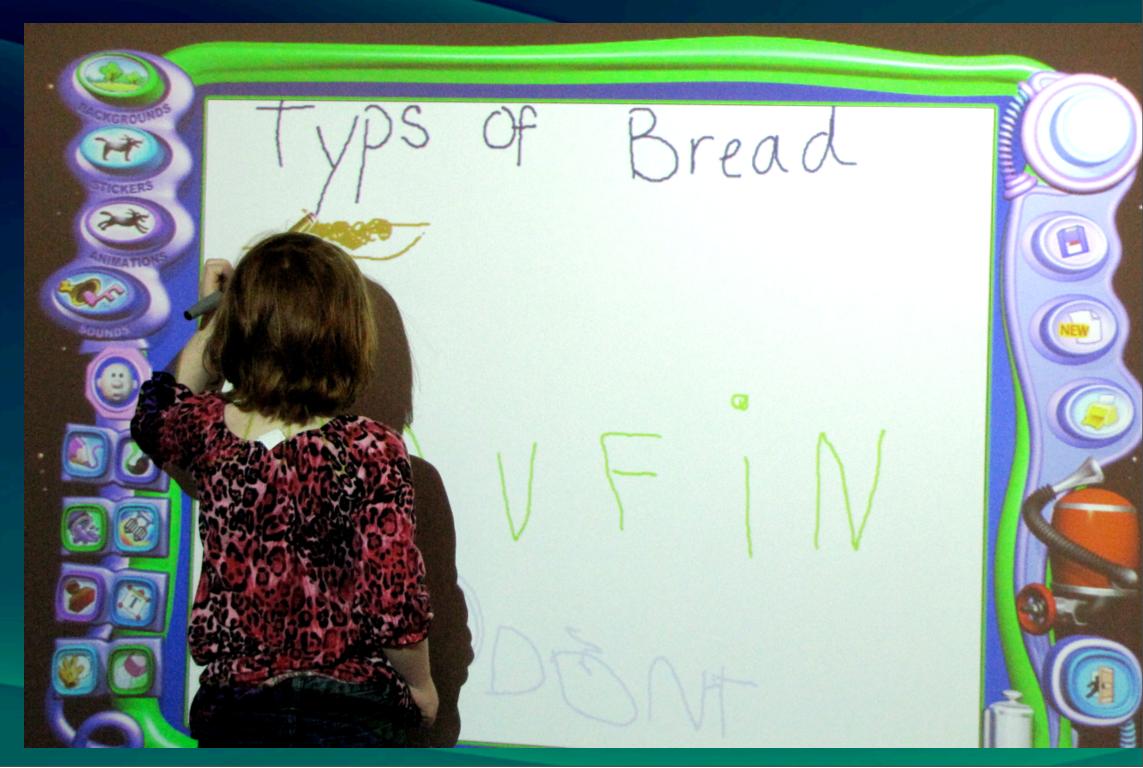
- Computer
- Kidpix Software
- Interactive White Board (optional)



# Exploring Digital Tools: White Boards Literacy

### Using Kidpix

- Small groups
- Large canvas
- Create & play
- Modify & revisit
- Share

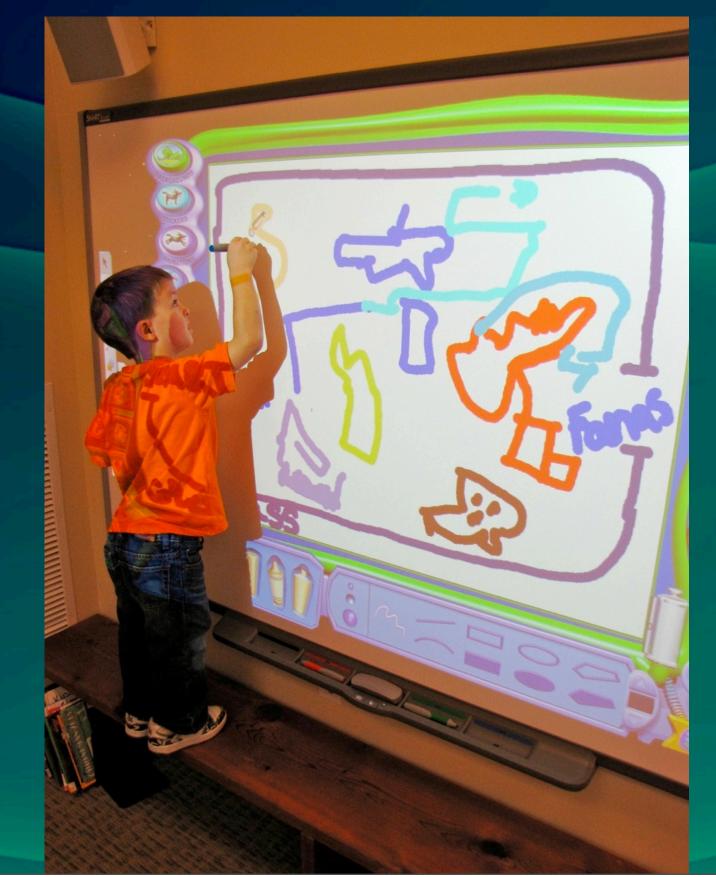


#### Exploring Digital Tools: White Boards

Literacy

### Evaluating Kidpix

- Inspires hands-on learning
- Encourages creativity
- Invites self-expression
- Extends literacy
- Encourages dwelling
- Supports gross-motor



# Exploring Digital Tools: White Boards Numeracy

Virtual Manipulatives:

Investigating
Mathematical Concepts



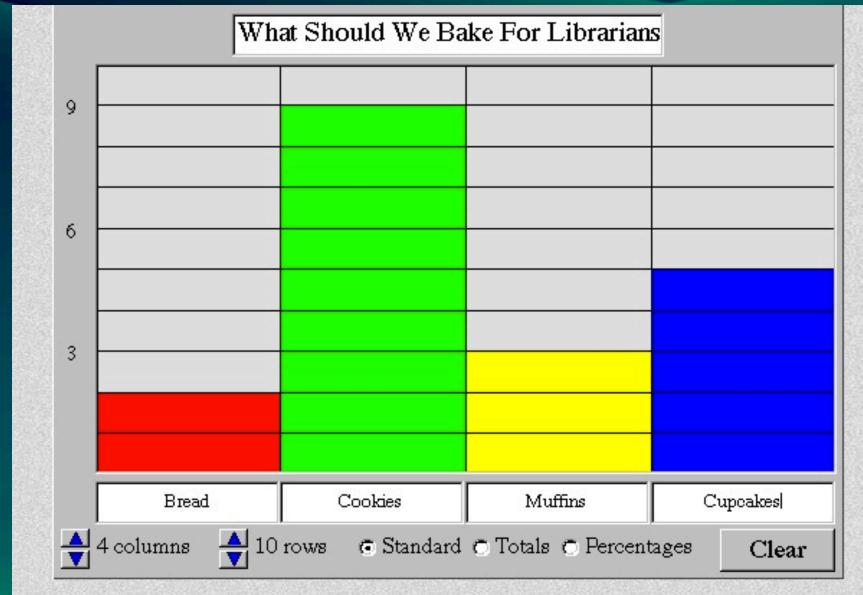
# Exploring Digital Tools: White Boards Numeracy

Using Virtual Manipulatives

- Java-based math tools
- Data display

Requires

Computer with internet



(http://nlvm.usu.edu/en/nav/vlibrary.html)

#### Exploring Digital Tools: White Boards

Numeracy

Complete the pattern

Virtual Manipulatives



### Exploring Digital Tools: White Boards

#### Numeracy

### Virtual Manipulatives

- Numbers and operations
- Data Analysis & Probability
- Pre-algebra
- Geometry
- Measurement

Number & Operations (Grades Pre-K - 2)



**Bar Chart** – Create a bar chart showing quantities or percentages by labeling columns and clicking on values.



Base Blocks - Illustrate addition and subtraction in a variety of bases.



Base Blocks Addition - Use base ten blocks to model grouping in addition.



Base Blocks Decimals - Add and subtract decimal values using base blocks



**Base Blocks Subtraction** – Use base ten blocks to model separation of groups in subtraction.



Chip Abacus – Learn about carrying and digits using chips.



**Circle 99** – A puzzle involving adding positive and negative integers to sum to ninety nine.



Color Chips - Addition - Use color chips to illustrate addition of integers.



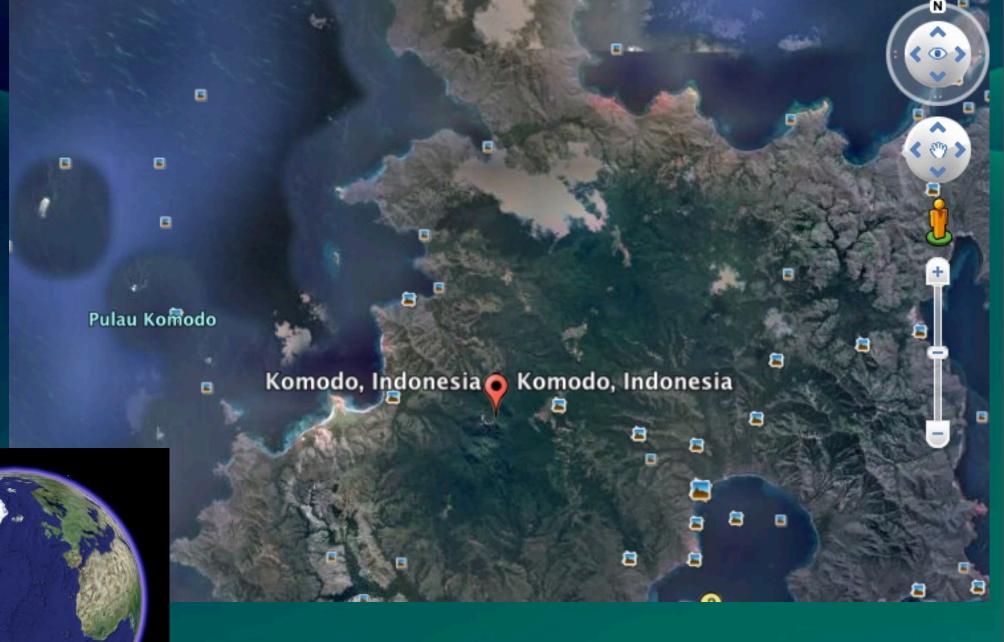
Color Patterns - Arrange colors to complete a pattern.



**Diffy** – Solve an interesting puzzle involving the differences of given

# Exploring Digital Tools: White Boards Supporting Social Studies

Google Earth: Exploring Our World





# Exploring Digital Tools: White Boards Supporting Social Studies

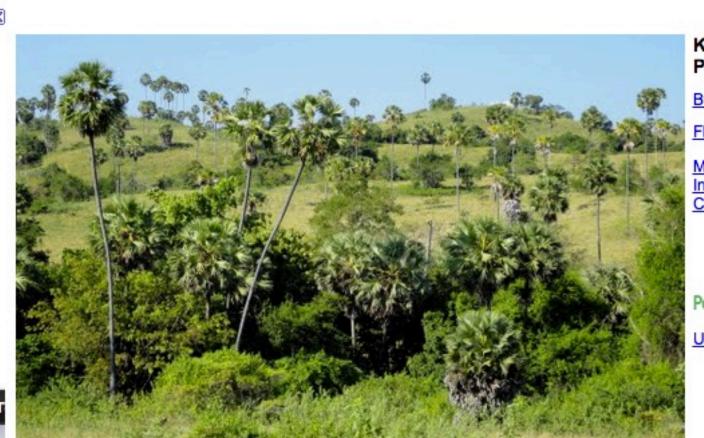
### Requires

- Google Earth Software
- Computer with Internet

### Using Google Earth

- Virtual travel
- Photos, videos
- Zoom-in feature





Komodo Island Nation Park

By Dagmar Titzová

Fly to this photo's location

Misplaced? Inappropriate Comment it

Pan⊕ramio

Upload your photos



### Exploring Digital Tools: White Boards Social Studies

### Evaluating Google Earth

- Provides hands-on experiences
- Enables unique, 3D perspective
- Encourages exploration
- Inspires research





### Exploring Digital Tools: White Boards

### Evaluating Interactive White Boards

- Increases engagement
- Empowers students
- Fosters discussions
- Provides scaffolds
- Enables saving & revisiting
- Not inexpensive



### Exploring Digital Tools: Web Tools

Literacy & Documentation

Classroom Blogging:

Documenting and Sharing









### Exploring Digital Tools: Web Tools Literacy & Documentation

#### Process:

- Document learning
- Students reflect
- Writing text
- Adding photographs & Individual hoto may be downloaded for your own collection.

  We love to read and reply to them!
- Reading and responding to comments
- Fosters discussions



Welcome to the Early Learning Community at Pacific University

We invite you to explore our site and enjoy this reflection of our school life.

Dr. Seuss Day-February 28, 2014



The Shark Presc



#### Exploring Digital Tools: Web Tools

Literacy & Documentation



the kindergarteners of the Early Learning Community at Pacific University

BLOG PHOTOS CALENDAR SONGS OUR TEACHERS OUR CLASSROOM OUR SCHOOL

Welcome to the Early Learning Community at Pacific University. We invite you to explore our site and see this reflection of our school life. Feel free to share comments, we love to read and reply to

#### Uniters workshop

TUESDAY, OCTOBER 25, 2011 AT 4:49PM



Today in writers workshop we discussed adding pages to our work. Ask your child to describe what





ind posts by topi

#### Contact Me

This form will allow you to send a secure email to the owner of this forwarded from this page.

Documenting Learning Pacific University



### Exploring Digital Tools: Web Tools

Literacy & Documentation

Reflecting



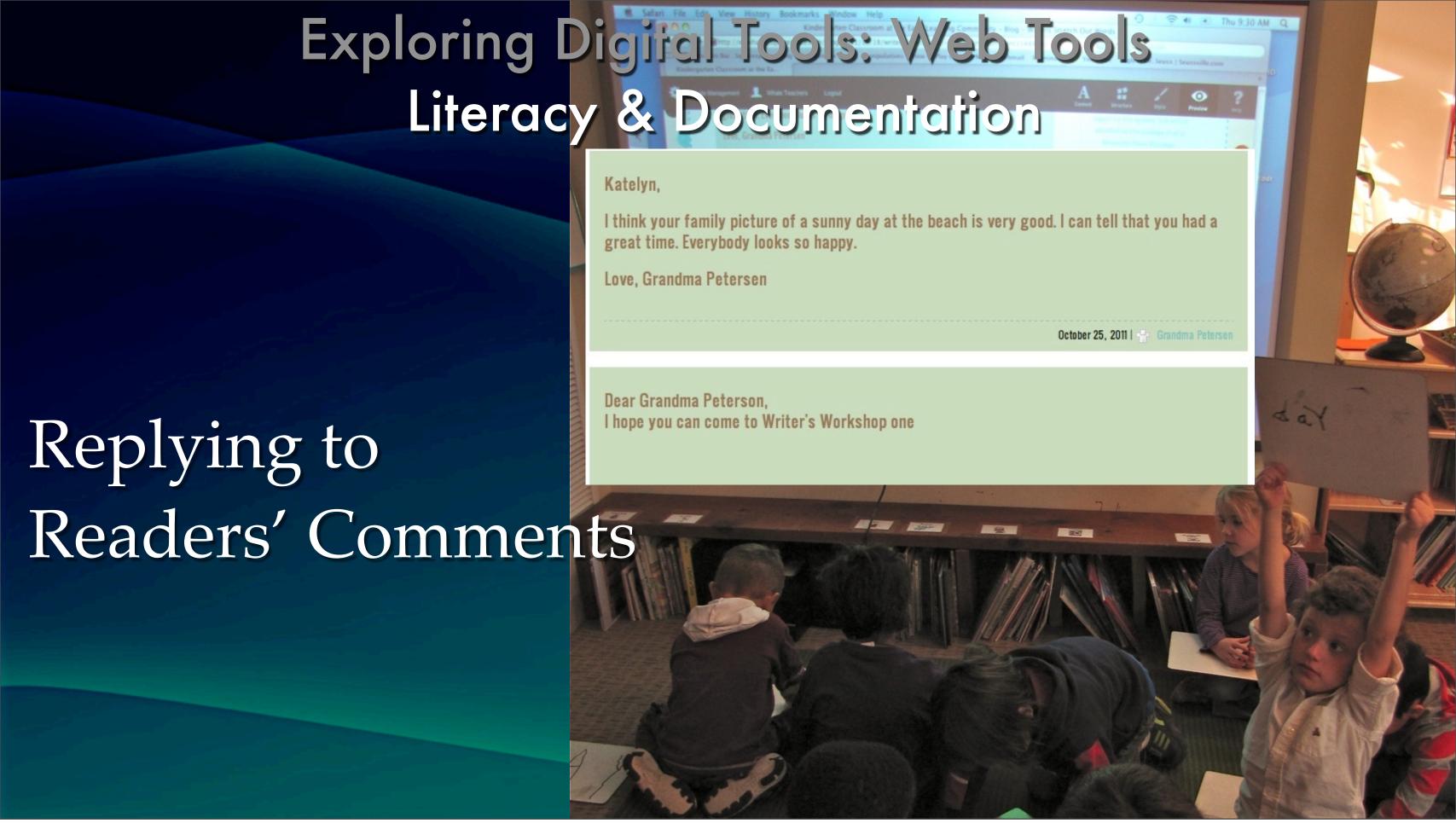


### Exploring Digital Tools Web Tools Literacy & Documentation

Creating the Blog







#### Exploring Digital Tools: Web Tools

Literacy & Documentation





Mapping
Readers' Comments

## Exploring Digital Tools: Web Tools Literacy & Documentation

...third, as parents, we really appreciate the time Laurel puts in to posting on the blogs and communicating some of what goes on during the day. We recently discovered another great use of the blog -- it has helped Michael with some of his separation anxiety around drop-off. Since he only goes 2 days a week, it seems easy for him to forget how much fun he has at school. We've found that by looking at the blog and pictures on the mornings he goes to school, it has helped him get excited again and tempered some of his sadness.

blessings, Brenda

Dear Mr. Mark,

As the mother and grandmother of Canadian children living 3000 miles away in the United States I am constantly looking for the blessings in the situation. If it were up to me of course they would all be living down the street. Since this does not seem likely to happen anytime soon I have to be content with visiting often and keeping in close touch in other ways.

This year one of the very best means of communication has been Rachelle Mejia's blog. My granddaughter, Kylie , is in Rachelle's class and through the blog I am able to keep a daily check on what has been happening so that when I talk to Kylie on the phone I am right up to date and have something to talk about.

You have our utmost admiration and thanks.

Sincerely, Carol H \_\_, On behalf of the

family

# Family & Blogging



## Exploring Digital Tools: Web Tools Literacy & Documentation

## Classroom Blogging

• Great for sharing: photos, text, videos, links, audic

- Documenting learning projects
- Enabling reflection & feedback
- Sharing pedagogy
- Informing of events
- Extending community



# Showcasing Powerful Technologies: Other Software

- Speech to Text
- Storybird
- Hopscotch

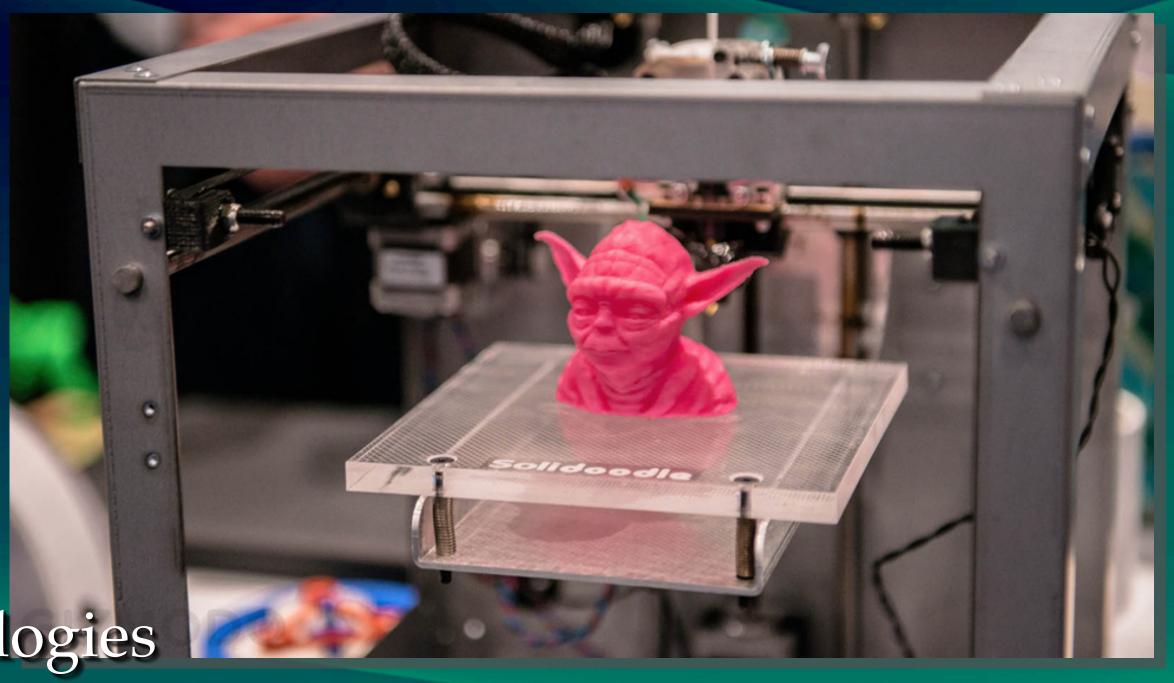






# Showcasing Powerful Technologies: Other Hardware

- 3D Printers
- Sifteo
- Little Bits
- Ludos
- Bo & Yana
- Future Technologies







- Listen to children, all their languages
- Support their work
- Intentionally select tools
- Empower their learning

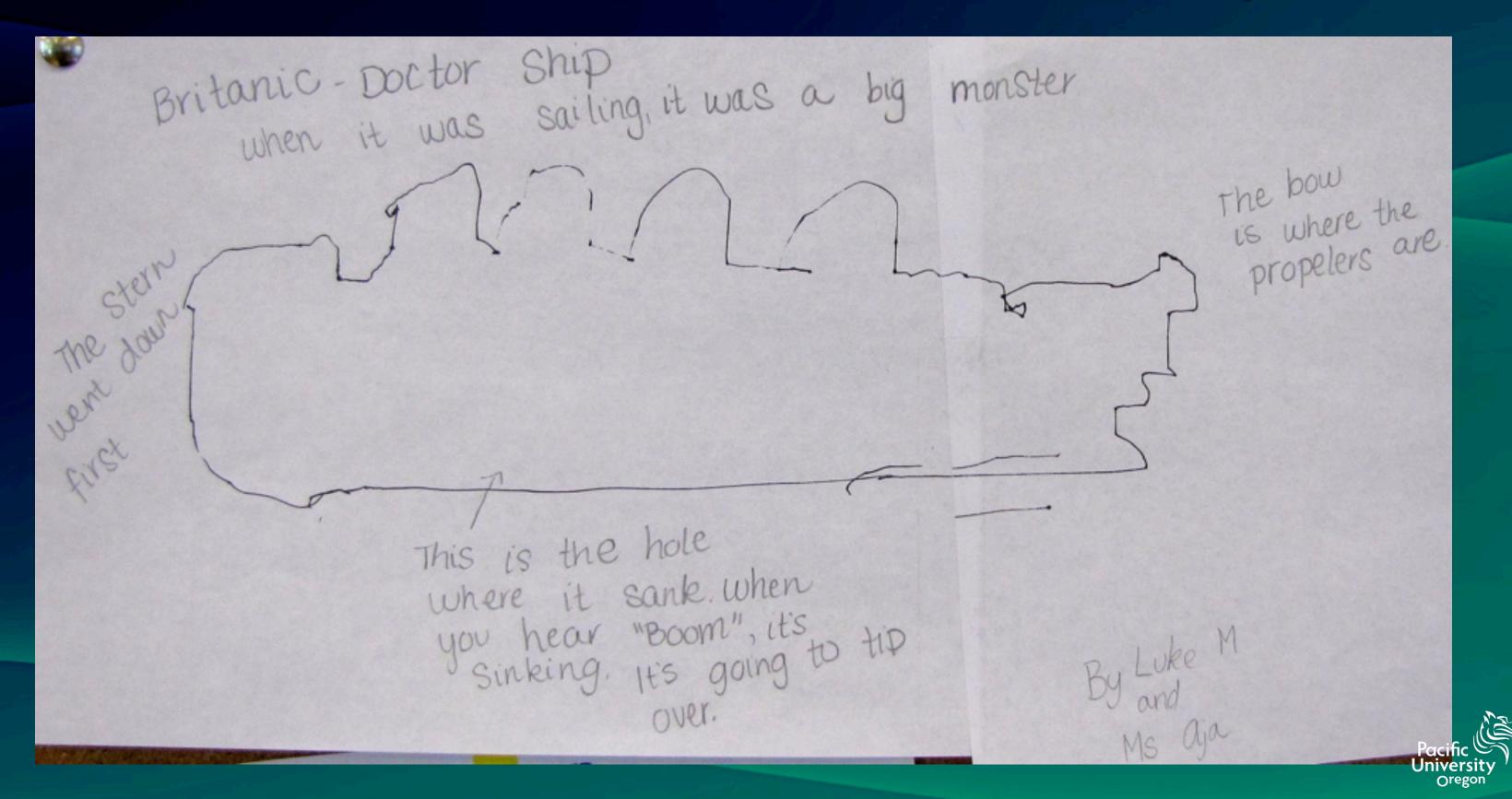




























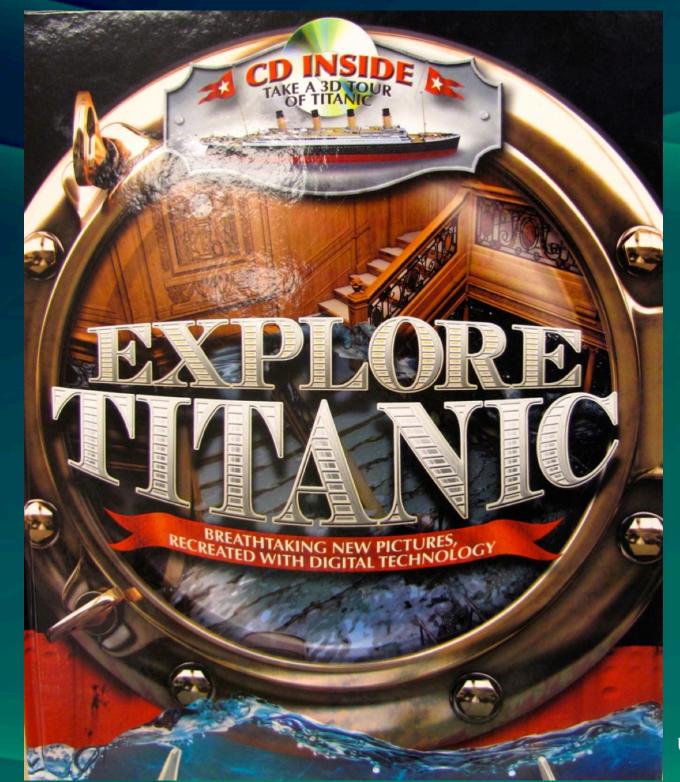










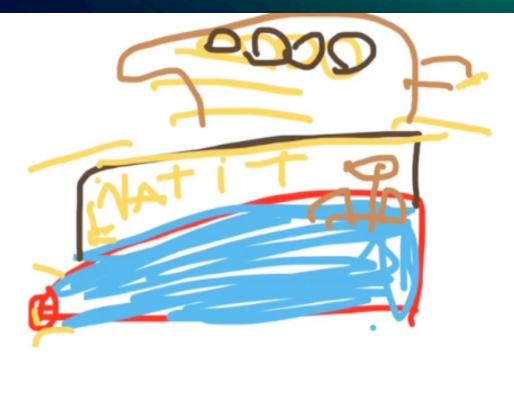
















**Book Creator** 





"gears that will pump water out of the hull"





"A mop to swab the deck"

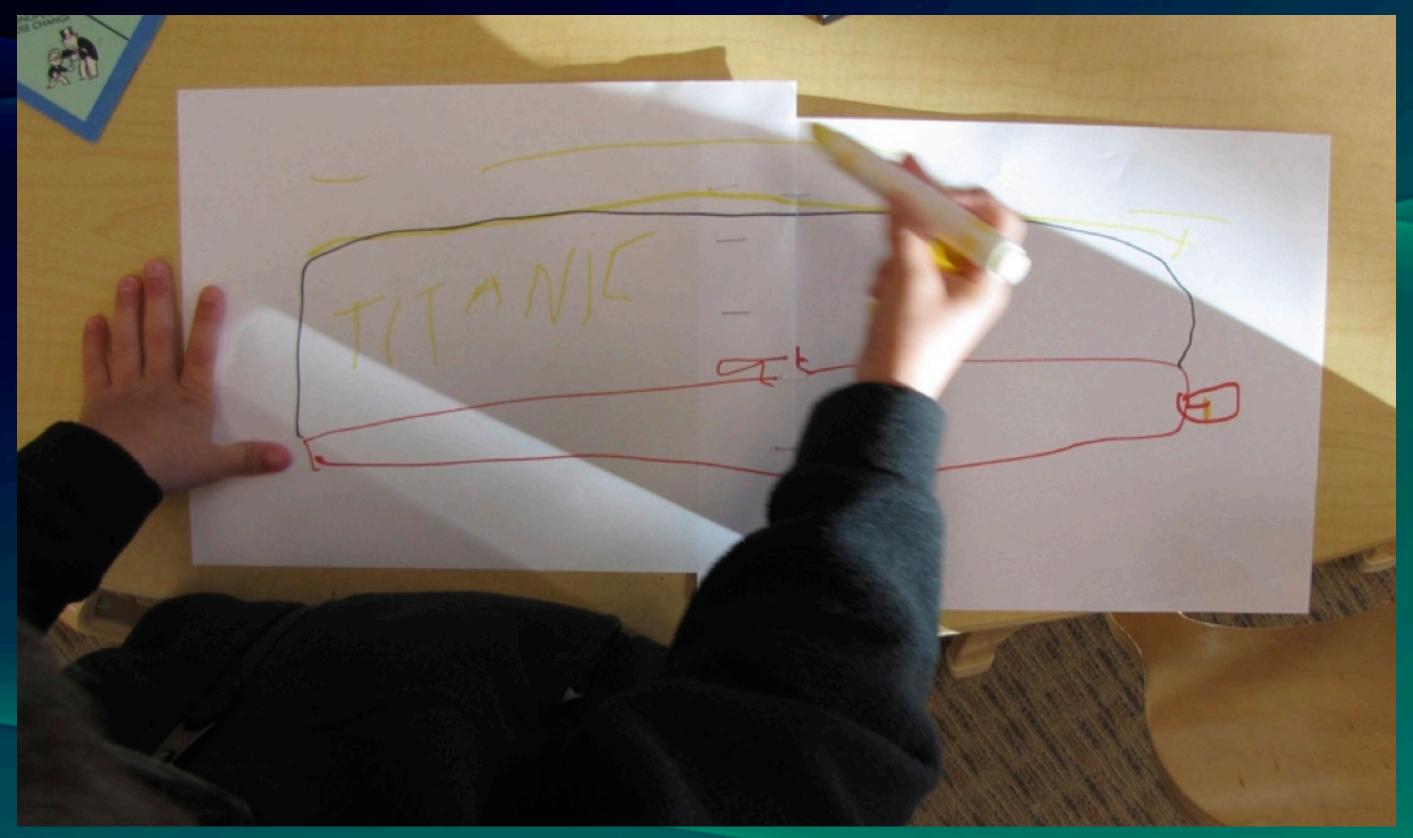




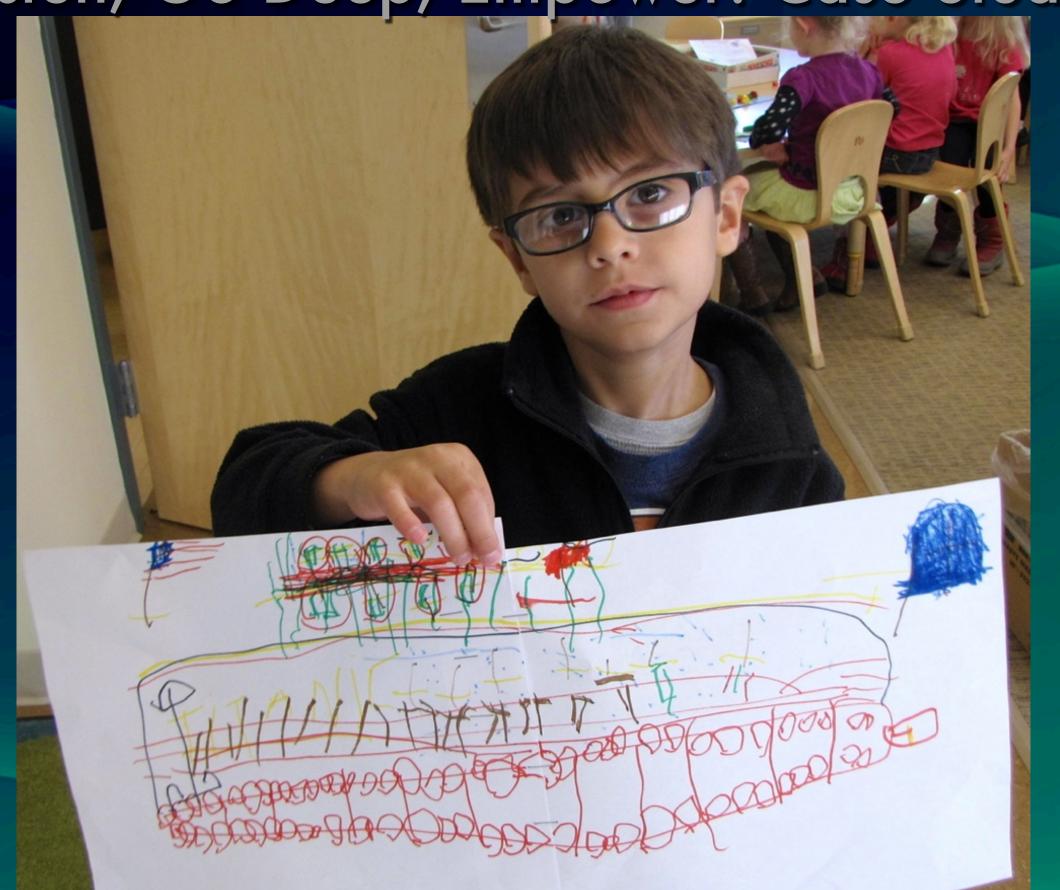




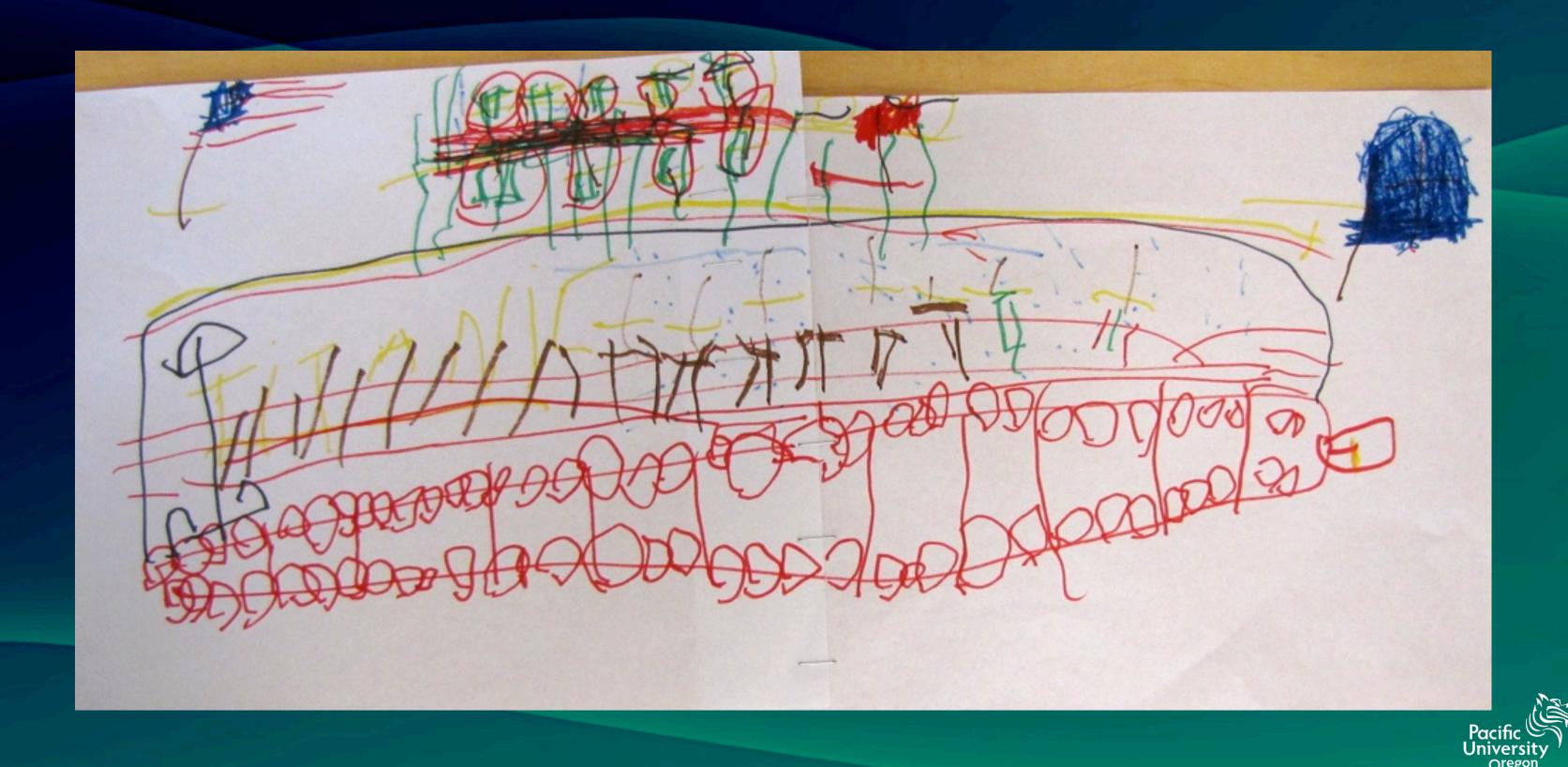


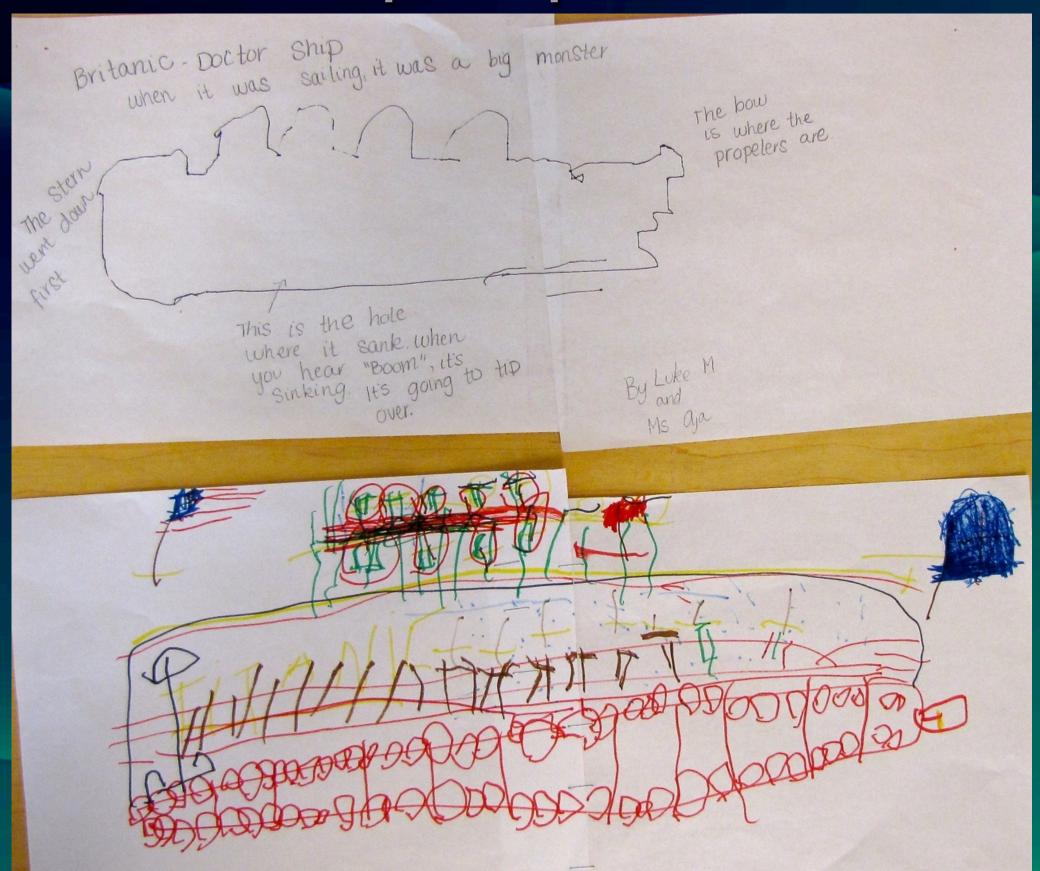














### Titanic - Transmedia Learning

- Teachers listened to all languages
- Supported across range of media
- Intentional selection of materials
- Deep exploration of relevant concepts
- Empowered new forms of learning
- Social, emotional, physical, conceptual





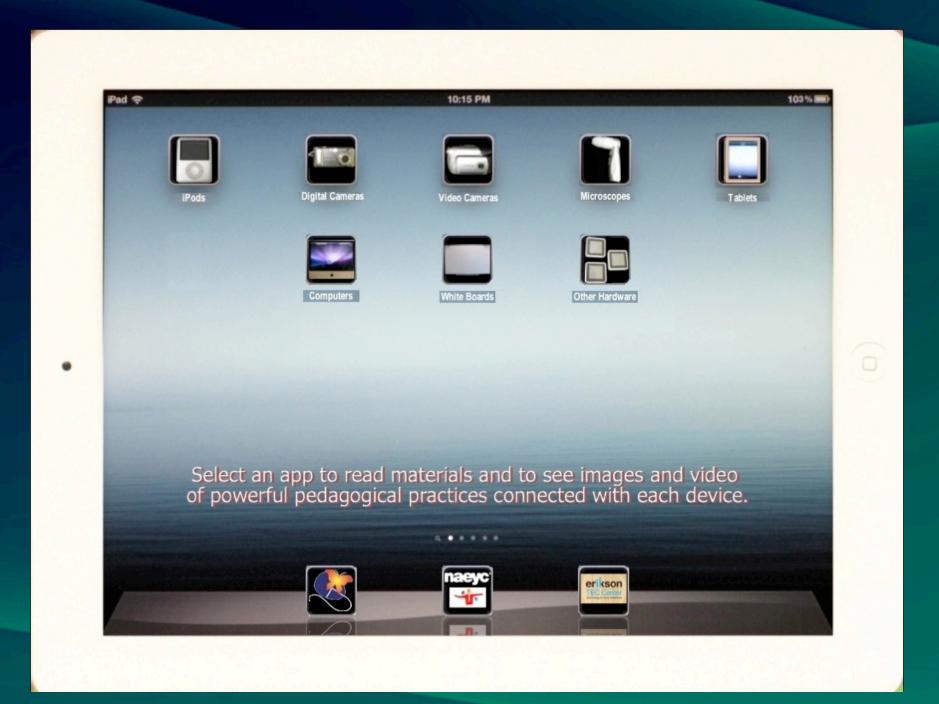
#### Intentional, Appropriate, & Effective Uses of Technology:

#### Things to Look for in an Educational Technology:

- Embodies Universal Design
- Utilizes Developmentally Appropriate Features
- Empowers, Enhances, and Transforms Classroom Experiences
- Requires Active Engagement
- Scaffolds Adaptive Complexity
- Encourages Revisiting & Sharing
- Models Multiple Diversities
- Empowers Exploration & Creativity
- Fosters Thinking & Problem Solving
- Supports Playful Use



## Intentional, Appropriate, & Effective Uses of Technology: Best Practices Database









#### **Digital Microscopes**



#### Description

One of the great joys of early learning occurs when young children experience seeing the world in new and unexpected ways. Digital Microscopes can provide such a perspective. They empower children's insight when they are used as a manipulative tool that provides them with perspectives that are engaging and unique.

Most digital microscopes must be connected to a screen such as a computer. The best way to begin to use a digital microscope is to simply turn it on and hand it to a child. Almost without exception children (of all ages) will point it at their bodies (ear, eye, tummy...) and be fascinated with what they see. Providing learners with items that contain interesting textures and surfaces will allow them to connect their sense of touch with the image of the surface they are sensing.

Our preferred tool is a ProScope HD microscope. These can be connected to a computer in a classroom, at an exploration station, or outside in the natural environment. This microscope not only displays high definition digital images on the computer screen, but with the push of a button, it can capture photographs of what is being displayed for later discussion, story writing, or posting on a blog.



#### Suggestions for use

Classroom - Set up a computer (desktop or laptop or tablet) with HD software and microscope. Orient screen so that it is easy for the students to manipulate the scope and view the screen simultaneously. The scope can be particularly powerful when used for explorations of the human

body as there is nothing more concrete than one's own body

Scope is also excellent for explorations of all manner of surfaces including

- Natural materials such as rocks and minerals, shells, wood, insects, and plants such as molds.
- Man made materials such as Metals, plastics, fabrics, various types of papers,
- Interesting small details such as dates on coins or bills, watch parts, facets of jewelry.





## Intentional, Appropriate, & Effective Uses of Technology: Conclusions

## When considering using a tool:

- Determine student interest & need
- Envision what will be learned
- Recognize what is appropriate
- Be intentional & deliberate
- Support not supplant essential activities



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## Intentional, Appropriate, & Effective Uses of Technology: Conclusions

### Listen, Go Deep, Empower

- Listen to your students
- Encourage deep explorations that empower
- Use transformative technologies
- Utilize resources & guidance
- Innovate & have fun.



#### Intentional, Appropriate and Effective Technology Use

It's not the technology, it's how you use it.



# Intentional, Appropriate, and Effective Uses of Technology: Tools to Transform Learning and Development

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Pacific University College of Education







## Intentional, Appropriate, & Effective Uses of Technology: Educator Resources

- Tech Best Practices EGs: fg.ed.pacificu.edu/cldc/techtools.html
- Early Learning Community: <a href="http://fg.ed.pacificu.edu/elc/">http://fg.ed.pacificu.edu/elc/</a>
- Erikson TEC Center: <a href="http://teccenter.erikson.edu/">http://teccenter.erikson.edu/</a>
- Tech and Young Children: www.techandyoungchildren.org/
- Children's Tech Review: <a href="http://childrenstech.com/">http://childrenstech.com/</a>
- Visual Manipulatives: <a href="http://nlvm.usu.edu/en/nav/grade\_g\_1.html">http://nlvm.usu.edu/en/nav/grade\_g\_1.html</a>
- Learning at Home 2014: <a href="http://www.joanganzcooneycenter.org">http://www.joanganzcooneycenter.org</a>
- Fred Rogers Center: <a href="http://www.fredrogerscenter.org">http://www.fredrogerscenter.org</a>
- This Presentation: <a href="http://fg.ed.pacificu.edu/cldc/tww.html">http://fg.ed.pacificu.edu/cldc/tww.html</a>

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## Intentional, Appropriate, & Effective Uses of Technology: Educator Resources 2

- American Academy of Pediatrics http://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/pages/media-and-children.aspx
- Campaign for Commercial Free Childhood http://www.commercialfreechildhood.org/
- Connecticut Preschool Assessment Framework http://www.sde.ct.gov/sde/lib/sde/PDF/DEPS/ Early/Preschool\_Assessment\_Framework.pdf
- Cycle of Intentional Teaching <a href="http://www.sde.ct.gov/sde/lib/sde/PDF/DEPS/early/TW.pdf">http://www.sde.ct.gov/sde/lib/sde/PDF/DEPS/early/TW.pdf</a>
- Toddlers and Technology http://www.asha.org/Publications/leader/2011/110920/Toddlers-and-Technology.htm

