

Serving the professional development needs of extraordinary educators.

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Expect Extraordinary

DD19 Innovative Differentiations with Your iPad

Katie McKnight, Ph.D.

Together let's create extraordinary classrooms.

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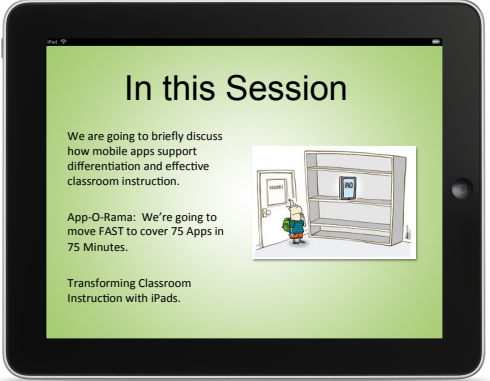
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In this Session

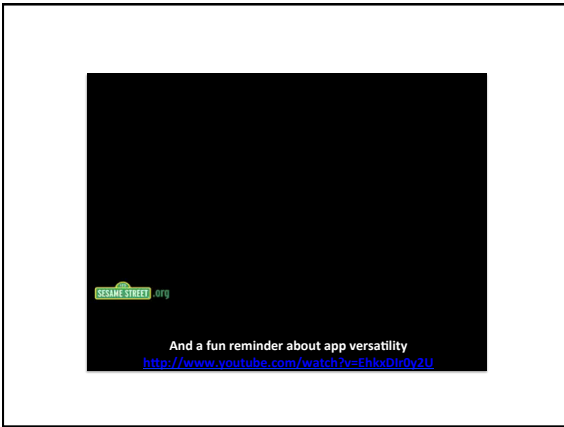
We are going to briefly discuss how mobile apps support differentiation and effective classroom instruction.

App-O-Rama: We're going to move FAST to cover 75 Apps in 75 Minutes.

Transforming Classroom Instruction with iPads.








- **Learning Experiences** are based on diagnosis of student readiness, interest and/or learning profile,
- **Content, Activities and Products** are developed in response to varying needs of varied learners,
- **Teaching and Learning** are focused on key concepts, understandings and skills,
- **All students participate** in "respectful" and engaging work,
- **Teacher and students** work together to ensure continual engagement and challenge for each learner,
- **The teacher** coordinates use of time, space and activities,

- **Flexible grouping** ensures consistently fluid working arrangements, including whole class learning, pairs, triads and quads, student-selected groups, teacher-selected groups, and random groups,
- **Time use** is flexible in response to student needs,
- A variety of **management strategies** (such as learning centers, interest centers, compacting, contract, independent study, collegial partnerships, tiered assignments, learning buddies, etc.) is used to help target instruction to student needs.
- Clearly established **individual and group criteria** provide guidance toward success,
- **Students are assessed** in a variety of ways appropriate to demonstrate their own thought and growth

Differentiated Instruction Checklist

Download Here:  <http://goo.gl/wjfv>

PLC/Book Study Guide for
The Common Sense Guide to the Common Core

Download Here:  <http://goo.gl/PAKWfs>

Options for Differentiation

Who Decides	Portion of the Curriculum	Learner Trait	Group Make Up
Teacher Choice	Content	Readiness	Student Similarity
Student Choice	Process (Activities)	Interest	Student Difference
Shared Choice	Product	Learning Profile	Random

Great Guide for
DI and iPads

<https://goo.gl/O2IHuf>



	<i>Readiness</i>	<i>Student Interest</i>	<i>Learning Profile</i>
<i>Content</i>			
<i>Process</i>			
<i>Product</i>			

Lesson Plan for: Science, 2nd grade

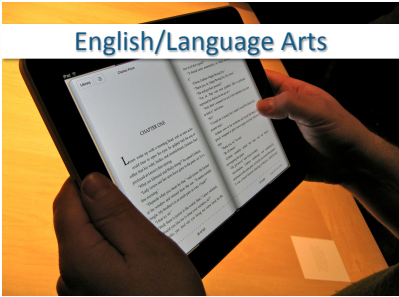
EQ/Standard/Objective: Use observational skills, perform analysis, draw conclusions
Access skill: Stay on task for extended periods of time

Have we considered the following elements?

- o Aud/ Visual Perception
- o Modeling
- o Practice
- o Student Choice
- o Novelty
- o Connections
- o Formative Assessment
- o VAKT
- o Vocabulary
- o Participation
- o Varied groupings
- o Retention
- o Sim/Differences
- o Technology
- o IEPs/Accommodations
- o Other:

<p>General Approach</p> <p>Activator Magic Bag – pull out iPad. Teacher acts out what it looks like to be off task. Use <i>Coach My Video</i> app to analyze with group.</p> <p>Body of Lesson Take video of students looking on task and have them analyze proper behaviors.</p> <p>Using wipe-off magnets, brainstorm ideas for what is needed for effective observation. Sort magnets into categories.</p> <p>Practice observation skills in lab activity.</p> <p>Share observations.</p> <p>Closure Return to categories for effective observation. Verbally rehearse 3 times for retention.</p>	<p>How will we challenge?</p> <p>These students will sort the magnets into common categories.</p> <p>How will we support?</p> <p>Categories on board. Self-monitoring practice. Visual supports.</p>
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English/Language Arts



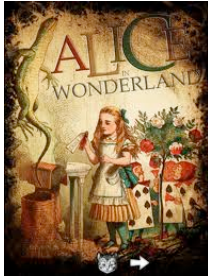
Shakespeare In Bits: Romeo & Juliet iPad Edition



Offers a fully animated version Shakespeare's timeless classic.

Cost: \$14.99

Best for: Supporting readers who are struggling with unlocking Shakespeare's text.
Features: Offers fully animated version of the actual text.



A new take on the timeless classic. This is beautifully illustrated with wonderful animations.

Cost: \$8.99



Comic Life

One of my favorite apps since students can actually create stories with pictures through templates.



Composition Apps





A Version of Magnetic Poetry

Cost: Free APP



Achiever's Writing Center



Best for: Teaching writing skills and strategies
 Cost: Varies
 Features: New feature called Essay Czar that is wonderful for college and high school students.

Some Reminders about these Apps:



Free APP
Dictionary.com



\$.99 APP
Dictionary with Voice
Many languages are featured



Numerous Apps to
Get our Hands on
Free Books



Free Books
Over 23,000 titles for
\$1.99

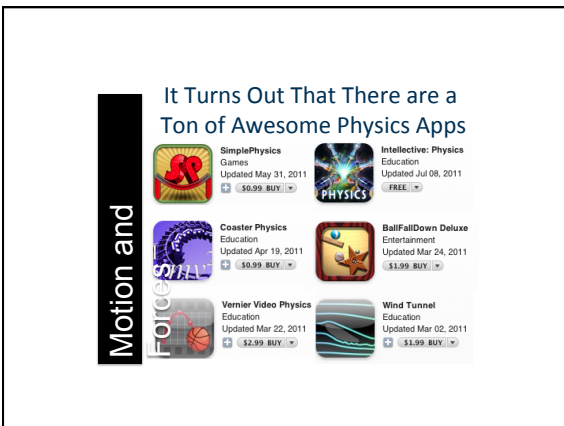
Evernote: This is an amazing
app for note-taking



This free APP is my current favorite.
I use it for note taking and it makes it easier
to retrieve my notes.
The app "talks" to all of my mobile devices.





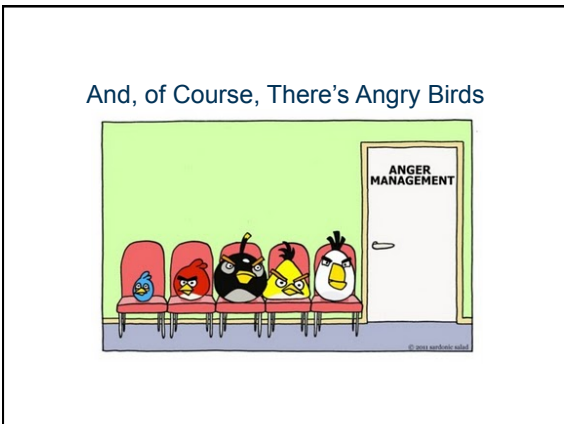


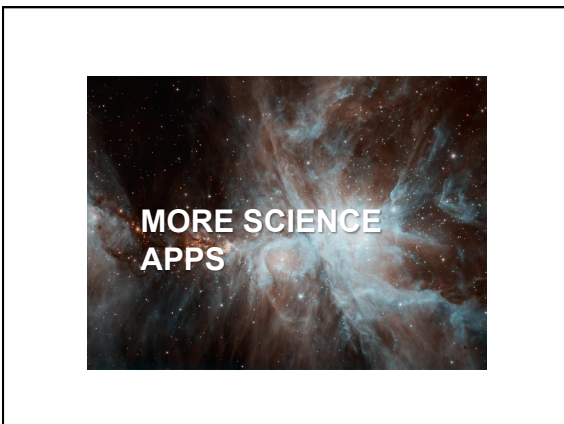
Electricity and Magnetism

 <p>iCircuit Productivity Updated Apr 03, 2011 \$3.99 BUY</p>	 <p>Electrons Education Released Jan 31, 2011 \$1.99 BUY</p>
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Heat, Energy, and Work

 <p>GAS LAWS Education Updated Apr 25, 2011 FREE</p>	 <p>BallBounceHD Education Released Aug 27, 2010 \$0.99 BUY</p>
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Planets: A Free App where students can view 3D models of the planets.






Solar Walk - 3D Solar System model


Description

This 3D Solar System model enables you to navigate through space and time, observe all the planets in close-up, learn their trajectories, inner structure, history of their exploration, points of interest and more. Use 3D mode to get a more realistic experience...

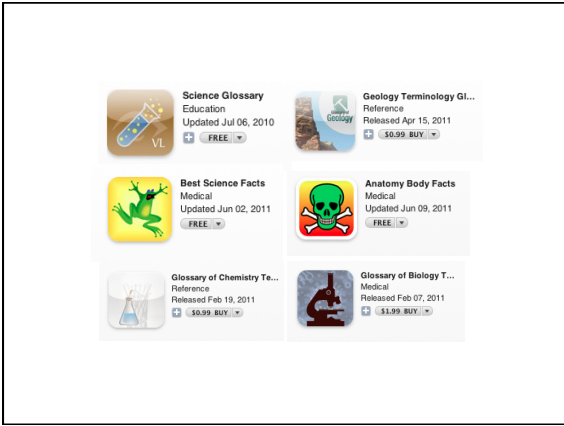
Biology Apps

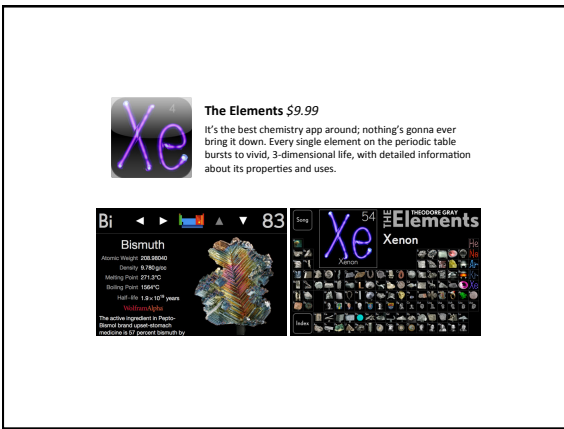


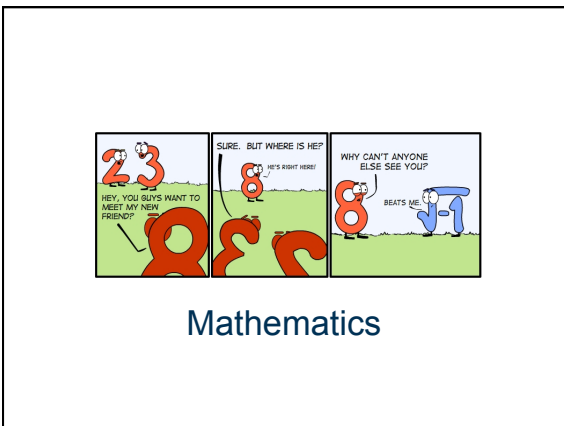
Mitosis
Education
Updated Jan 08, 2010
DOWNLOADED



Video Biology
Education
Updated Feb 07, 2011
FREE








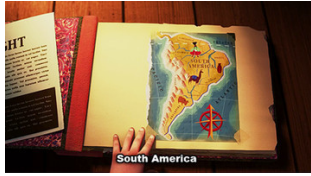


Mathematics







	Symmetry Shuffle Education Released Aug 31, 2010 \$1.99 BUY		My first weighing exercises HD Games Updated Apr 03, 2011 \$1.99 BUY
	Algebra Touch Education Updated Mar 30, 2011 \$1.99 BUY		GeoBoard Productivity Updated Jan 14, 2011 \$1.99 BUY
	Wolfram Algebra Course Education Released Dec 21, 2010 \$1.99 BUY		Convert Units for Free Utilities Updated Sep 18, 2010 FREE

	Mathematical Formulas Education Updated Apr 25, 2011 \$0.99 BUY		Formulus Free - Formulas Education Updated Jul 19, 2010 FREE
	Quick Graph Education Updated Mar 03, 2011 FREE		Fraction Factory Education Updated Mar 08, 2010 FREE
	Graphing Calculator Education Released Jun 18, 2010 \$2.99 BUY		Algebra Education Updated Mar 25, 2011 FREE

	Mental Maths \$0.99 Download Mental Maths when looking to train the brain into serving as a quicker organic calculator through puzzles, games, and other engagements.
	Math Quiz for All Ages \$0.99 It's pretty much exactly what the title says it is — a series of quizzes about addition, subtraction, multiplication, division, square roots, and squares of escalating difficulty, suitable for all age and ability ranges.
	Brain Thaw \$0.99 A delightful little Penguin named Newton teaches kids — and maybe even some adults! — all about math via a series of number puzzles.



Social Studies

	Today in History Lite Education Updated Jun 23, 2011 FREE		States & Capitals Free Education Updated Jul 13, 2010 FREE
	The Oregon Trail Games Updated Jan 31, 2011 \$0.99 BUY		USA Factbook and Quiz Education Updated Feb 19, 2009 \$0.99 BUY
	World Wide Capitals Education Released Jun 08, 2009 FREE		Atlas Utilities Released Apr 05, 2010 \$0.99 BUY



World Atlas by National Geographic \$0.99

Because World Atlas is a National Geographic joint, the maps available here pop up in different styles, and come partnered with detailed national information, like flags, the most recent economic data, cultural phenomena, and more!



US Presidents \$0.99

From Washington to Obama, learn all the basic facts about every man who ever stood as America's president through an easy flashcard interface.



US Historical Documents \$0.99

Instead of arguing the Constitution as interpreted by politicians, give it and other integral documents that shaped the United States (including the Magna Carta, Declaration of Independence, inaugural addresses, and dozens of others), a read and form opinions from that.

Other Great Apps for Teaching and Learning

The screenshot shows a grid of app cards. Each card includes an app icon, the app name, category, update date, and price/status. Apps shown include Smithsonian Channel (Entertainment, Updated May 13, 2011, FREE), NYT News (News, Updated Jul 01, 2011, DOWNLOAD), Discovery Channel (Entertainment, Updated Sep 25, 2010, DOWNLOADED), Google Earth (Travel, Updated Dec 21, 2010, FREE), MythsBusters iPhone (Entertainment, Updated Oct 08, 2010, \$2.99 BUY), and GarageBand (Music, Updated Jun 01, 2011, DOWNLOADED).

Google Earth Google Earth lets you fly anywhere on Earth to view satellite images, maps, terrain.	Dictionary free This application has a dictionary and thesaurus.	Art Lite for students working on artist research
Photoshop.com for students to be able to manipulate pictures and save them	Soft Ear Trainer Allows students to train their ear via pitch dictation using solfège. Various levels.	Poll Everywhere This web app allows students to answer polls by entering in texts, or numbers.
Spanish Tutor Lite Students are able to practice and be quized on Spanish vocabulary and structure.	Whiteboard Mini whiteboard where students can quickly write answers or graphic organizng.	Wligr flashcards \$5 Students and teachers are able to create their own flashcards on any of the content areas.

Source: <http://sites.google.com/site/itunesandpodcasting/i-touch>

The tablet screen shows a 'How to Reach Me' slide. It lists contact information: email (Katie@KatherineMcKnight.com), website (www.KatherineMcKnight.com), Twitter (@literacyworld), and Facebook (Katie McKnight Literacy). It also includes a QR code and a reference to a blog at www.KatherineMcKnight.com. The background features a stack of books and a globe.



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- Single-Topic Workshops
- Multi-Topic Workshops
- National and Regional Conferences
- Unconference Facilitation
- In-Depth Institutes
- Train-the-Trainer Institutes

Onsite PD

- Single-Topic Workshops
- Multi-Topic Workshops
- Customized Conferences
- In-Depth Institutes
- Train-the-Trainer Institutes
- Co-Teaching
- Professional Learning Communities
- Modeling/Observation

Web-Based PD

- Webinars
- Online Courses
- Flipped Workshops
- Blended Learning

PD Resources

- Books
- Tablettop Games
- Manipulatives
- Digital Games
- Apps

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