

iPad: Educational Access for All

The background of the title page features a photograph of a white iPad lying flat on top of a stack of several books with various colored covers (yellow, green, blue). The iPad screen is dark and appears to be displaying a grid of horizontal lines, possibly representing a digital document or a list. The overall composition is centered and uses a clean, modern aesthetic.

By David Lofink in collaboration with Elias Cazales

iPad: Educational Access for All

Apple, Inc. announced on January 19, 2012 they would be entering the digital textbook marketplace with the iPad, pitting themselves against established and less expensive eReader tablets such as Amazon.com's Kindle Fire and bookseller Barnes and Noble's Nook Tablet. They will also face the eReader service market provided by large vendors like Google eBooks which offers downloadable eBooks to any device. Apple's decision may or may not revolutionize the digital textbook but it is quickening the pace to a goal of educational access for all.

Originally the computer desktop was king of technology sales. With the rise of the number of affordable laptops that rivaled the power of their predecessor, desktops were knocked off as number one. That didn't last too long. Today, tablets and smart phones are dethroning the laptop. Is the iPad a possible computer replacement? For users who need simple access to the internet, email, documents, ePub books, photos, some gaming and video, the iPad is a computer replacement. With the ability to backup to iCloud, photo storage on multiple websites, dropbox, google apps that offers a web office to create docs, etc., an iPad could be your only terminal to the digital universe. For gamers, college students, business users, educators using multiple electronic devices such as document cameras and interactive boards, a computer is still a necessity.



Desktops were once the King of Technology

iPads were developed as an individual user device. The idea was to create a mobile operating system (iOS) that would run applications (apps) on a slim portable device. Apps would allow users to tailor the iPad to their unique needs. Apple created iTunes Store to deliver the apps and music to the iPad. Along the way they created four more independent apps: iBooks, Newsstand, Music, and their latest, iTunes U.

It's been a fun challenge to work with iPads since July of 2010. I can still remember my first day on the job as a District Technology Curriculum Specialist for Santa Ana Unified School District located in Santa Ana, California. I was sitting in my boss's office when she got up, opened a cabinet and handed me an iPad. I thought I had died and gone to heaven! Yes, I am a tech geek and proud of it!

As I began to work with the iPad many questions began to arise. What can it do that other devices can't? How does it compare to my iPhone? How can it be used in the classroom? Will it help students who need individualized support? Does its versatility outweigh the iPad's cost? Can the iPad survive without Flash? Over the last two years my questions have been answered only to be replaced by new, exciting ones.



I met Elias Cazales, my co-author, in October of 2010, at an iPad training through the Orange County Department of Education. Elias is the Assistive Technology Tech for our Special Education Department. Both of us were on our own dime learning as much as we could about the iPad. While my focus was on how the iPad would be used in a classroom or with district employees,

Elias's focus was on Special Education and its benefits. As we discussed our roles using iPads I realized, as knowledgeable as we both were, together the iPad program in the district would be much stronger. But even the two of us didn't have the answers to all things iPad. So we created a group to lead the district into the iPad Age. Our group included representatives from Educational Technology, Assistive Technology, Information Technology and the Purchasing Department. Our first tasks were to tackle how to follow Apple's Terms and Agreement, purchase apps, and establish how district users set-up iTunes accounts. The more we learned, the more all of us realized we had a winning educational device sitting in our hands.

We've come along ways since we first began using the iPad. New operating systems (iOS), improved iPad hardware, innovative accessories, various apps arriving on the App Store daily and you have a device that continues to increase its versatility. This versatility opens the door for every type of learner.

In this book we will explore many aspects of the iPad and education with the focus on how the iPad can offer equal access to all learners (and if it isn't there, someone is bound to make an app for that!)

Enjoy!

David Lofink

A Quick Note:

The apps listed in this book barely scratch the surface of what is offered in the App Store. Check out these resources:

- [iTunes U](#)
- [iBooks](#)
- [Podcasts](#) (Podcasts includes both audio and video).
- lists of the most popular downloads in each [Category](#)
- [iTunes Charts](#)

Meet the Authors



David Lofink has been overseeing the implementation of iPads for the Santa Ana Unified School District (SAUSD) located in Santa Ana, California. David has a Bachelor of Arts in Political Science from Humboldt State University, a teaching credential from the University of California, Irvine and a Masters of Science in School Administration from Pepperdine University, Malibu. He has worked in the Santa Ana Unified School District since 1990 as a School Librarian, Elementary Teacher (K-5), Reading First Literacy Coach, and currently as a District Education Technology Curriculum Specialist.

Breaking the 1000 total at the end of 2011, iPads have truly begun impacting how the district is doing business. District administrators, faculty and students are beginning to experience the functionality and access to information on a level never seen before, especially for SAUSD's large population of English language learners.

Elias Cazales, the Assistive Technology Specialist for Santa Ana Unified School District (SAUSD), has been overseeing the implementation of iPads for the Special Education Department. As an Assistive Technology Specialist, he has more than six years of experience working with children and adolescents with severe disabilities in the public schools. He works closely with faculty in exploring ways to implement assistive technology at various levels and shares strategies in the use of technology with students with disabilities. Elias is a graduate of California State University, Fullerton.



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Special thanks to:

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Margaret Barnes

Juanita Fast

Alexandra Ito

All the teachers in my district who were happy to share their experiences and apps they use.

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Chapter 1

IOS: Access for All Learners

Access, access, access...

With information flowing at an incredible rate, access to a steady data stream is one of the keys to success. Everyone in public, private and home education needs access to it.

In January, 2012, as I sat with my 87 year-old grandmother, Roseanne Griggs Flannagan, talking about this and that, she reached over to her side table and picked up a small case. She pulled out a Barnes and Noble Nook e-Reader. An avid reader, I can remember as a child going over to her house and seeing the small den filled with books, everyone of them she had read. Recently my grandmother faced not being able to read. Why? She could not hold a book up for a long duration due to the weight. The Nook enabled her to continue her life long passion of reading. She showed me how the Nook worked and some of of the books she was reading.



My Grandmother, Roseanne Griggs Flannagan, in the late 1930s.



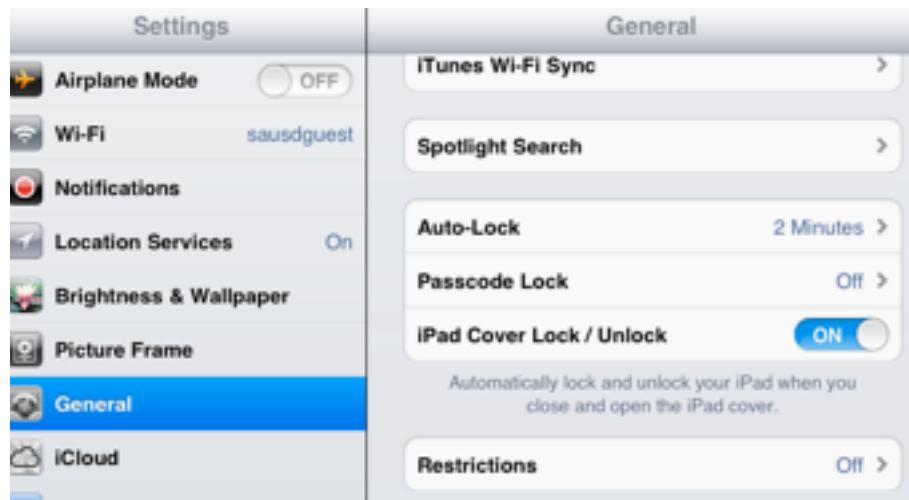
Roseanne was quite active in several organizations.
moving back and forth through the photos, able to exit in and out of the app.

Now she was thinking about getting a computer but wasn't sure as she had never used one. Active in so many organizations over the years, she desired to keep up with updates on them. The problem is so many organizations now spread their information through websites emails. I suggested that what she needed was an iPad. No operating system to learn, no malware or virus attacks, simple apps to use, email at your fingertips, and lots of music she can enjoy. Since I am almost never without my iPad, I pulled it out of its case and placed it in her hands. I had her click on the home button to awaken the device, swip to open, tap on my Flickr app and up came the family photo set. She easily swiped through digital copies of photos of her and my mother from the 1940s and 1950s. Within thirty seconds she was easily

The simplicity of the iPad creates a world of accessibility to almost all who enter its digital universe.

Section 1

Restrictions



To find Restrictions go to: **Settings - General - Restrictions**

The Restrictions Controls, also known as Parental Controls, is part of the iPhone Operating System (iOS 5). The default for the set of controls is turned off. If you are using the iPad as an single adult user, restrictions is probably an area you have not really explored. But for an iPad in the classroom or student use, restrictions are essential.

To activate Restrictions, tap on Settings-General-Restrictions. Under Restrictions the first button you will see is **Enable**

Restrictions. It is the only button in the Restrictions column is dark. The rest of the options will be grayed out.

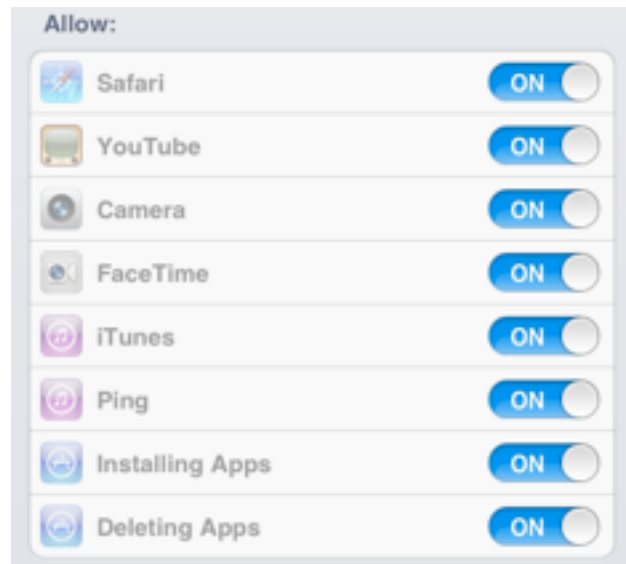


Once you enter the four-digit code, you will be asked to reenter it.

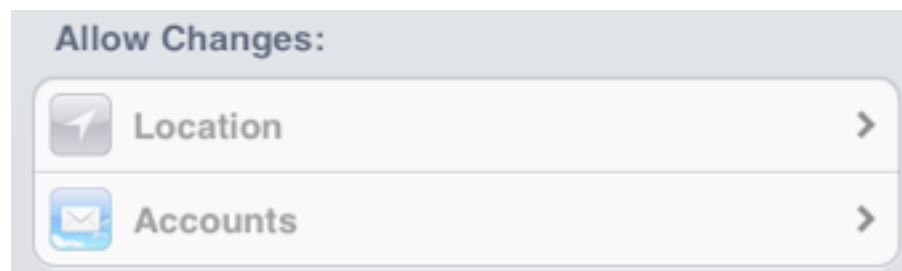
When you tap on the button, a small window will appear. It will require a four-digit code. Do not forget your code! If forgotten, there is no way to retrieve it.



Now that you have enabled Restrictions, you have a list of apps in the first section. When the app is on, there is no restriction to use it. To restrict the use of the app on the iPad, tap on the ON button. The app will then turn off and no longer be available until turned back on. Remember, if you have turned off the install app, you will not be able to install any apps on to your iPad even if you sync with iTunes. You will need to go back into apps and turn it on. The same with goes for deleting apps.



The next section of Restrictions is **Allow Changes**. Since you probably won't be using an email connected to the iPad when



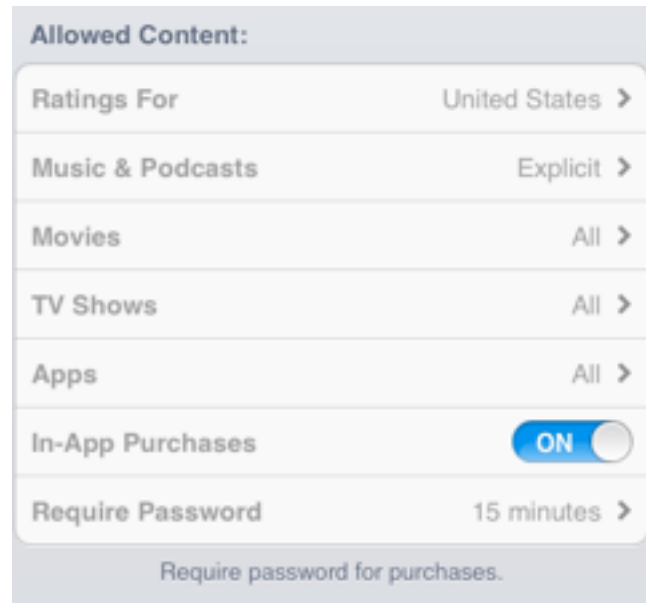
there are multiple users, let's focus on the **Location**.

When tapping on location, you will notice three sections. **Allow Changes** is the default. This allows all apps that use the location service to be turned on or off. If you check **Don't Allow Changes**, all location services will be turned on or off according to the list of apps found in location. This allows you to be selective in which app is able to use the location



service. Maps or camera are two examples of apps you may not want to turn off the location. If you wish to simply have all apps with the location services turn off, just tap on the **ON** button next to **Location Services**.

The last section of **Restrictions** is **Allowed Content**. This is similar to the parental controls on the Xbox, televisions, digital cable boxes or iTunes. You can control the content of of music, movies, TV shows and apps.



To restrict any of these content areas tap on the section and select your choice. The example below is from the Apps Allowed Content area. I have the ability to restrict apps by age or not to allow apps at all.



To find the rating for each app, open iTunes on your computer or the App Store. When you get to the informational page about the app, look to the left sidebar. Here you find the technical info about the app: category, version, size, language, the seller. Below this info is the rating. The app to the right is rated 4+.



Category: Education
 Released: Dec 13, 2011
 Version: 1.0
 Size: 47.8 MB
 Language: English
 Seller: Spinlight Studio
 ©2011 Spinlight Studio

Rated 4+

Requirements: Compatible with iPad. Requires iOS 4.0 or later.

Restrictions is one of the powerful iOS settings that will allow you to customize the iPad to your user needs. A important reminder: make sure that you remember the four digit code you enter for the restrictions. Without it, your restrictions will stay the way you last left them until you restore the iPad back to factory settings then add all of your content back on.

Section 2

Accessibility



“iPad incorporates numerous accessibility features, including:

VoiceOver screen reader

Zoom magnification

Large Text

White on Black

Speak Selection

Speak Auto-text

Mono Audio and balance

AssistiveTouch

Support for braille displays

Playback of closed-captioned content

download from the App Store. Closed-captioning works with videos and podcasts that support it.



For more information about the iPad accessibility features, go to www.apple.com/accessibility.

You can turn individual accessibility features on or off in Accessibility settings on iPad. You can also turn some features on or off in iTunes when you connect iPad to your computer.

Turn on accessibility features using iPad: Go to Settings > General > Accessibility.

Turn on accessibility features using iTunes: Connect iPad to your computer and select iPad in the iTunes device list. Click Summary, then click Configure Universal Access at the bottom of the Summary screen.”

Zoom, White on Black, and Mono Audio work with all apps.

Large Text works with Mail and Notes. VoiceOver works with the built-in iPad apps, and with some third-party apps you can

- p.105 Chapter 24: Accessibility, The iPad User Guide

For information about Accessibility and Vision:

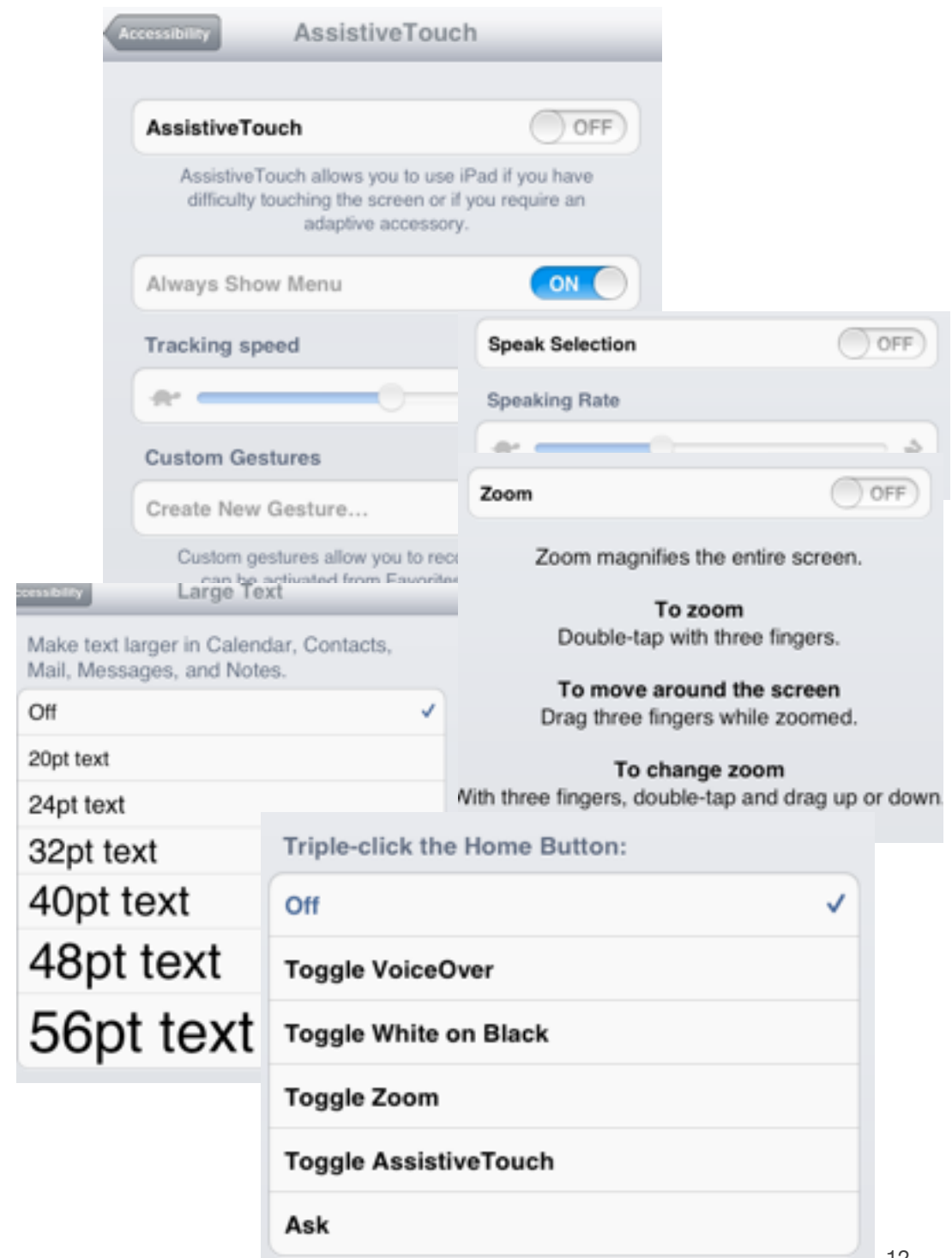
<http://www.apple.com/accessibility/ipad/vision.html>

For information about Accessibility and Hearing:

<http://www.apple.com/accessibility/ipad/hearing.html>

For information about Accessibility a Physical and Motor Skills:

<http://www.apple.com/accessibility/ipad/physical.html>



Section 3

Photo Booth/Camera



One of the biggest differences between the iPad 1 and the iPad 2 is the camera. The camera on the iPad 2 is nothing to brag about despite the hopes it would run the same specs as the iPhone 4. The good news is the advent of the camera has produced a huge amount of new apps integrating the camera. With the iPad 3, the camera specs are much better at 5 mp in the rear, the front is still the same.

iPad 2 Camera Specs

Back Camera: Video recording, HD (720p) up to 30 frames per second with audio; still camera with 5x zoom; (0.91 mp, unofficial stat)

Front Camera: Video recording, VGA up to 30 frames per second with audio; VGA-quality still camera; (0.3 mp, unofficial stat)

Photo and video geotagging over Wi-Fi

There are three camera apps that are integrated into iOS 5:

- Camera (records video and takes photos)
- Facetime (strictly video conferencing)
- Photo Booth (takes photos)

Both Photo Booth and Camera apps save to the Photos app.

One major difference between these two apps is that when you delete the photo in Photo Booth, it disappears in Photos. Make sure you save it or email it before you delete.



The iPad also offers a screen shot function.

By clicking down on the:

- home button (the button at the bottom)
- sleep button (top button)

at the same time then quickly letting go, a screen shot of the iPad will be sent to the Photos app. All the photos in this book showing iPad images were taken using the screen shot function.

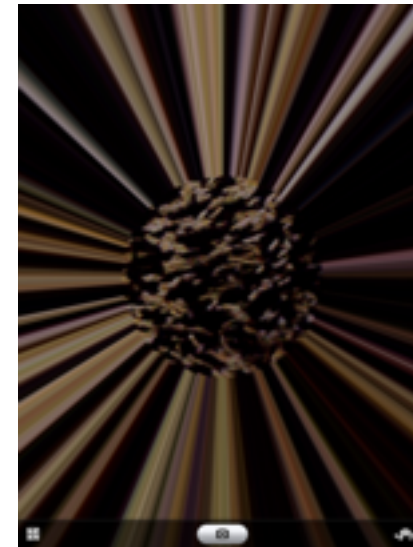
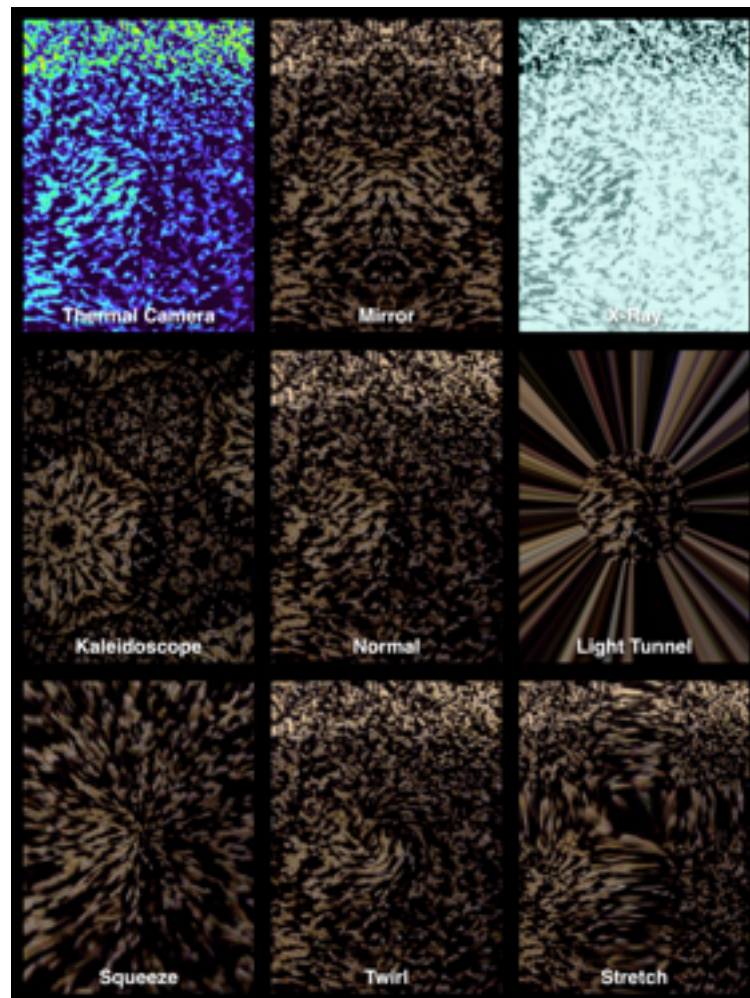


PHOTO BOOTH

Photo Booth is all about texturing images.

Originally found on the iMac, Photo Booth was redesigned for the iPad and offers eight effects:

Thermal, Mirror, X-Ray, Kaleidoscope, Light Tunnel, Squeeze, Twirl and Stretch, plus the Normal lens.



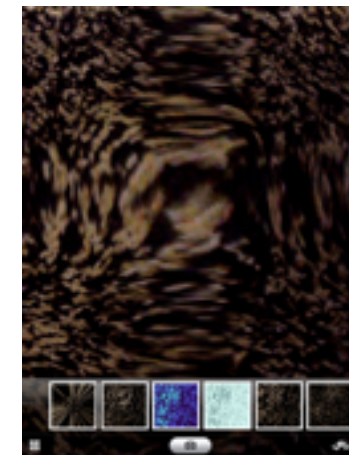
What this app lacks in a zoom function, it makes up in pure fun.

Once you tap on the effect of choice, drag your finger around the screen. The effect will follow. Once you are happy with the shot, tap the camera button.

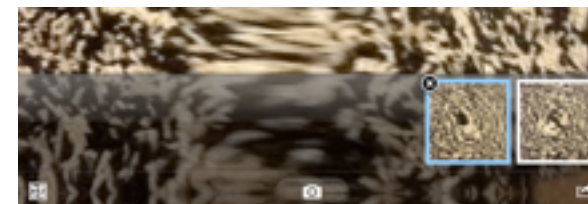
If you wish to change to cameras, tap on the change camera button in the bottom right corner.

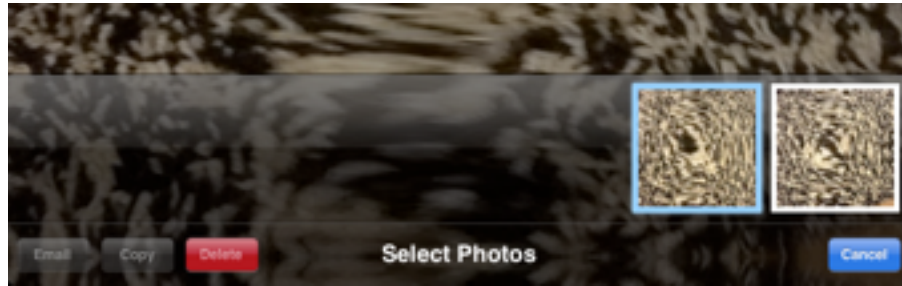
To return to the main screen, click on the effects button found in the bottom left corner.

When you tap on the camera button, the preview image will appear at the bottom. The photo is automatically added to Photo also.

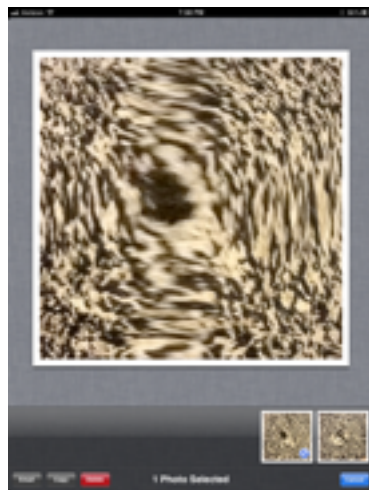


To email, copy or delete the photo, tap on the photo for 1 or 2 seconds. A small x will appear on the top left corner and an output box will appear in the bottom right corner of the screen.



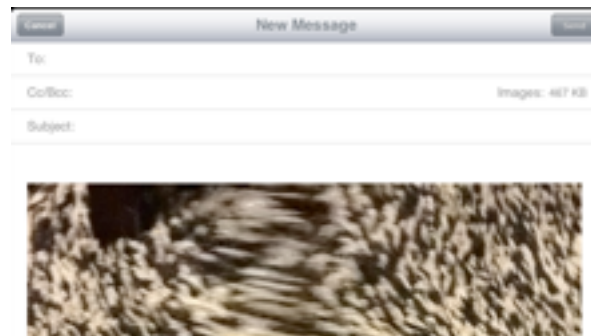


Click on the Output Box. A new set of tools will appear: Email, Copy, Delete and Cancel.



To use any of these tools, click on the photo you wish to work with. The Email and Copy tools will darken and can now be used.

Touch the Email button. A new window will appear connected to your default email set-up in the iPad. Fill out your information and send off the photo.



To delete the photo, hold down the photo till an x appears in the top left corner of the photo. Tap the x, click on Delete Photo and the photo will erase. *TECH TIP: Erasing a picture from the Photo Booth gallery will also erase it in Photos.*



CAMERA

PHOTO

The simplicity of the photo camera is similar to Photo Booth. Take the photo by tapping the camera button. The photo will automatically

be saved to the Photo app. If you wish to change cameras, tap on the camera with arrows at the top right. If you wish to see the photo, tap the photo icon in the bottom left corner.



The Camera app has a few more features:

No camera would be complete without a zoom lens. To activate the pinch-to-zoom feature, simply take two fingers and pinch or expand on the screen. A zoom line appears at the bottom. You can now continue to use the two fingers or move the cursor along the line.



The other required feature of a camera is the single tap focus and exposure. Simply tap on the area you wish to improve, a square will appear showing the area to improve the exposure and focus. When you find the right exposure and focus, tap on the camera button.



The last option in the photo section of the Camera is the Grid. The grid was designed to help the photographer better position its subjects.

To turn Grid on, tap on Options, then tap the off button. The grid lines will turn on. Tap Done. The grid lines will stay on until you turn them off. To turn them off, tap options again and tap the on button. Tap Done.



When you tap on the record button a timer appears in the top right corner.

To finish the video, tap the record button again. The video will save into the Photo app.

To review the video tap the Photo icon in the bottom left corner.

VIDEO

To switch to the video option of Camera, tap the camera to video button on the bottom right corner. You will notice the camera button is replaced with a record (red light) button.

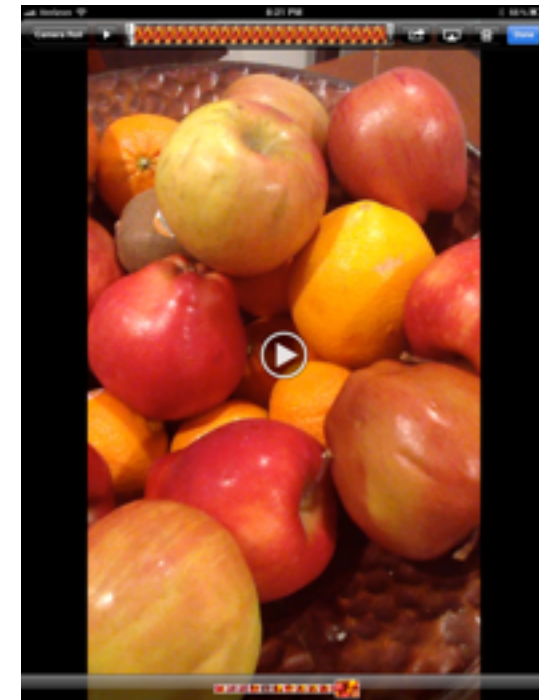
To activate the HD option, double tap on the screen.

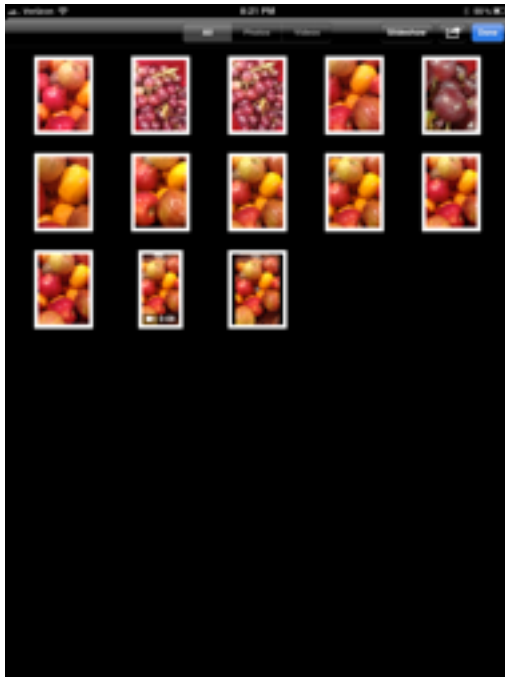
Video also has the single tap focus and and exposure feature.



Photo App

The Photo app is the repository for all the videos and photos taken. You can review the videos and edit the photos in its photo roll.






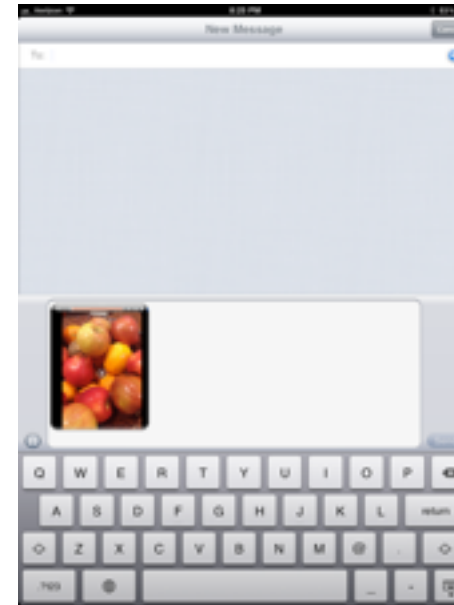
When you enter the photo roll of Photo you will have a visual of all your photos and videos taken so far. Notice the video icon with the time length.

To view the video, tap on the video.

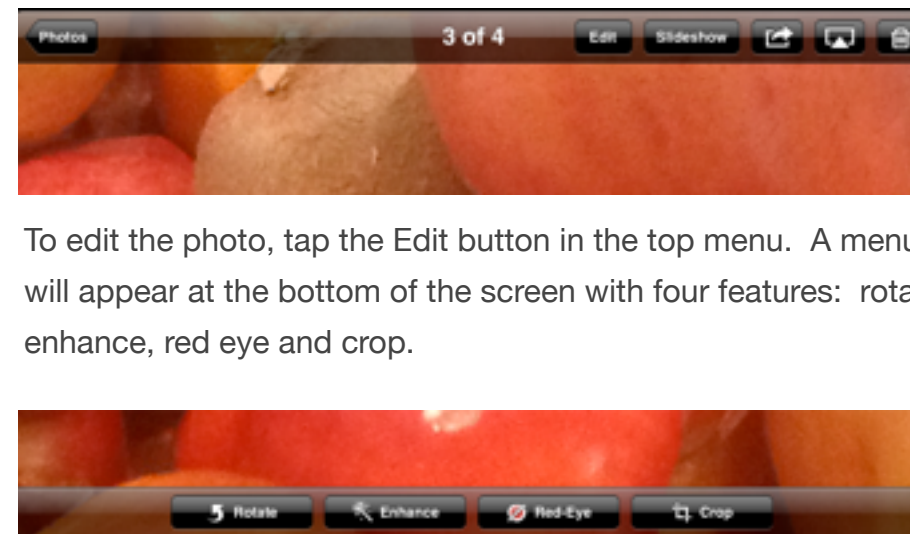
To view a photo, tap on the photo or use the pinch to zoom.

To watch a slideshow of all your photos tap the Slideshow button at the top.

Once you have the photo open,  by tapping on the share out box you can email the photo, send it through message, assign it to a contact, use as a wallpaper, tweet it, print, or copy to use in another app.



If you click on message, a new window will open in message. Place the recipient's name in the To: Box, add a message in the window with the pic, and tap send. It's that easy!

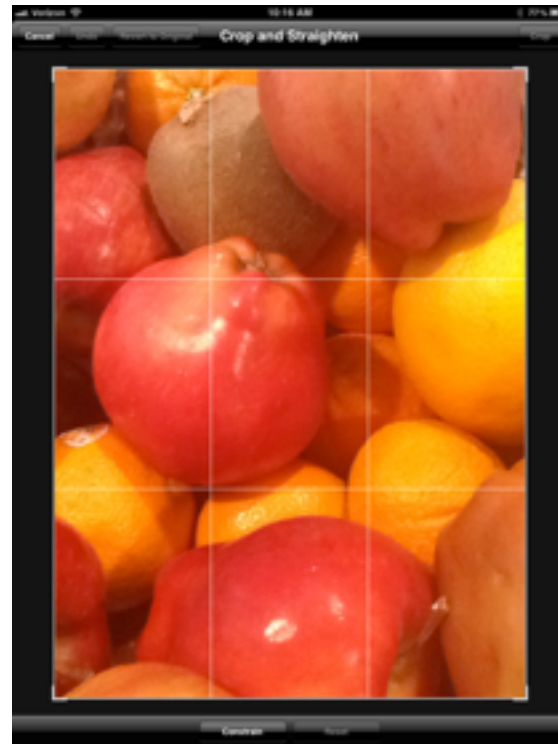


To edit the photo, tap the Edit button in the top menu. A menu will appear at the bottom of the screen with four features: rotate, enhance, red eye and crop.

Rotate orients the photo to landscape or portrait.

Enhance and red eye work similarly to the Camera's single tap focus and exposure.

The cropping feature turns on the grid with cropping corners turned on. Drag the corners to crop to the size you desire.



You can also use the Constrain feature inside Cropping to choose a preset size. When done, click in the top right corner on crop to save the cropping.



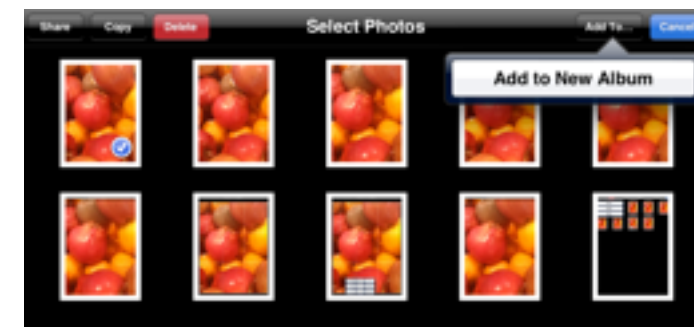
When all the changes have been made, tap the right top corner Save button. Use the pinch to zoom to exit the photo.

In the camera roll of Photo, If you wish to send multiple photos, tap the Share Out button.



A new tool bar will appear. Select the pictures you wish to work with. Tap on the Share button and you will find three choices: Email, Tweet, and Print. If you tap on the Add To... button, you

have the ability to create a new album in Photo. *Tech Tip: If you delete a photo in Photo Roll, it will delete the photo everywhere.*



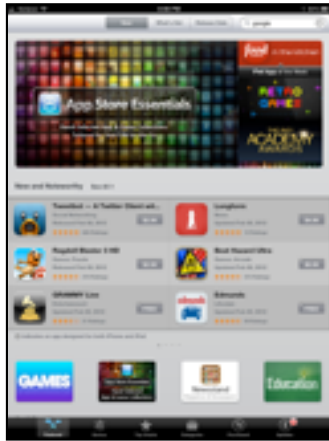
Chapter 2

App Store Organization

The App Store, the app to buy your apps on the iPad, is broken down into six sections: Featured, Genius, Top Chart, Categories, Purchased and Updates. This chapter takes a look at navigating the App Store.

Featured:

This section showcases new and noteworthy apps, staff favorites, and quick links to sets of suggested apps.



Top Charts:

Lists the top free, top paid and top grossing iPad apps.



Purchased:

Lists the apps you have purchased. Apps on the iPad show installed, Apps not on the device show a cloud.



Genius:

Based upon the apps you currently own, the Genius section showcases apps that might interest you.



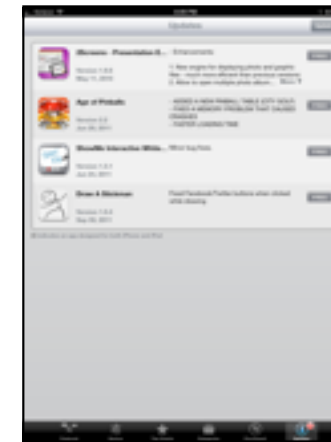
Categories:

Apps are organized into categories for easy browsing of alike apps.



Updates:

When updates are available for an app, they become available here. You can update one or Update All.



Section 1

Education Apps

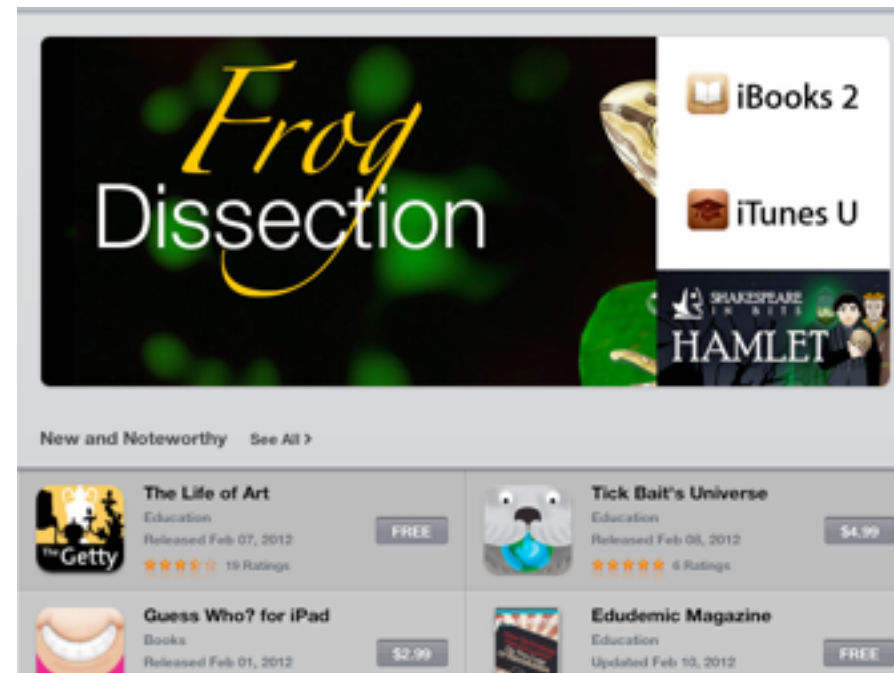
As you browse through the App Store you are sure to come across many apps that will ignite and inspire new ways to reach your students.

Now counting over 24,000 apps tagged as Education, new apps are arriving daily in the Education category of the App store.

The Education homepage is similar to the Featured homepage, hosting a New and Noteworthy, What's Hot, Release Date, and Staff Picks. Additionally, you can find links from Education to sections on Teacher Apps, Apps for Kids, and Special Education.

An app can only be tagged in one category. Be sure to search more of the categories for education

Gallery 2.1 Education Apps



All photos are screen shots from Apple, Inc.'s iTunes App Store.



try the free or lite versions.

type apps. You will find science dictionaries in the reference section, writing and note taking apps in productivity or business, bios of famous musicians in books, etc. As you browse through the Chapter 4:

Reinforcement and Enrichment, click on the names to check out more information about the app in the App Store. It never hurts to download a free app, try it out, then delete.

The listed apps in this book are but a small slice of apps that are useful to educators. Listen to others who are using iPads, search by subject matter online to find lists of suggested apps, and

Section 2

Teacher Apps

“With iPad, the classroom is always at your fingertips. Right now at the App Store, there are more than 20,000 educational apps for all kinds of learners, teaching them everything from science to sign language. Students can track their assignments, take notes, and study for finals. Teachers can give lessons, monitor progress, and stay organized. And that’s just the beginning.” <http://www.apple.com/education/ipad/>

Under the categories section you will find Education. Tap on Education, scroll to the bottom and you will discover the Education Quick Links.

Tap on the Apps for Teachers and it will take you a page broken down into the five categories found in Gallery 2.1 : Curricula Support, Instructional Tools, Classroom

Gallery 2.2 The Teacher Apps are broken down into five categories in the App Store.



All photos are screen shots from Apple, Inc.'s iTunes App Store.

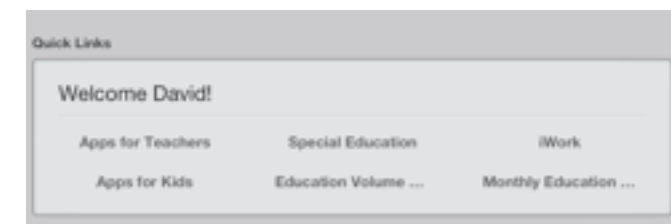


Tasks, Reference and Personal Organization.

In each category you can sort by name, release date and featured.

Its a good idea to sort through these every week or two to keep on the latest releases.

Remember this is a highlighted selection of a vast collection of apps to choose.



Section 3

Special Education Apps

The Special Education section is found under the Education category.



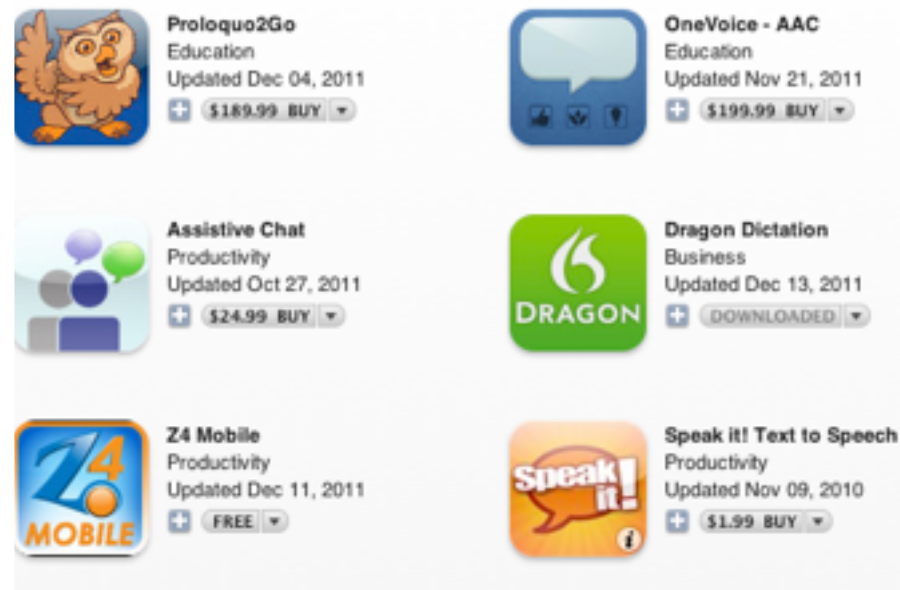
There is a difference between the App Store on the iPad and the App Store found in iTunes.

Gallery 2.2 shows how the App Store on the iPad breaks down the Special Education section into six parts: Communication, Hearing, Language Development, Literacy and Learning, Organization, and Life Skills.

The App Store in iTunes on the computer breaks the categories for Special Education into nine

Gallery 2.3 The Special Education section of the App Store is broken down into six sections.

Communication [See All >](#)



All photos are screen shots from Apple, Inc.'s iTunes App Store.



sections: Sign Language, Communication, Diagnostics & Reference, Emotional Development, Seeing & Hearing, Language Development, Literacy & Learning, Organization and Life Skills.

When exploring the apps you will notice some areas will have more apps than others.

Several of the apps are not necessarily Special Ed specific but have features that integrate will for the needs of students. Examples of these apps include Dragon Dictation, Notability, Dictionary.com and Bob Books.

Look to see what apps you have that will need the specific needs of students in the classroom.

Chapter 3

Special Needs

The iPad... Mean... Lean... A Specialized Machine?

Yep!

The iPad's IOS and it's apps bring specific functions for individualized needs.

What is an iPad?

An iPad is an end-user individualized tablet. This means you use it with what you download on to it.

You cannot manipulate:

- the applications (in iPad terminology applications are referred to as apps)
- the operating system (the iPad runs on an operating system called IOS.)

There are customizations to the iPad but it is within the offerings of each app or the IOS.

There are continual updates to the IOS that brings more options to the iPad. It is important you keep up with the updates.

You may have heard the term jailbreaking in which you can do some manipulation but since the majority of us in education are using district equipment this book will not discuss the use of jailbreaking.

So why the lack of ability to customize as the android-based tablets are able to do?

Apple has created the iPad to enable the basic to the sophisticated user to be able to pick it up for the first time and be able to use it without a large learning curve. This does create a

lack of some customization but the ability of each app to integrate with the IOS offers a tablet device that runs effectively and gives the user a pleasant experience. This is exactly what we need in our classrooms. To have a device that does not require teachers to brainstorm technical issues while trying to teach is a necessity in the increasingly demanding classroom.

This works in a few ways for those with special needs. Apps bring specific functions for specific needs, offers the ability to navigate the device in different ways,

Section 1

Special Needs Apps

Here are some highlighted Apps used by some of our Special Education teachers. Notice that several of the apps are quite expensive but most have a free lite version. I have noted where apps that are bought in quantities of 20 or more are half off. All app descriptions are taken directly from iTunes.

Speech Trainer 3D

This is a 3D demonstration of all sounds in the English language. Speech Trainer 3D is a tool designed to help individuals to practice every sound in the English language, including vowels and consonants. With detailed 3D animations that demonstrate the correct positioning of the tongue, lips, and mouth, it is a great model for children and adults who wish to work on learning to pronounce the English sounds correctly. This is a great visual tool for individuals who have suffered a stroke and are relearning speech, children with speech delays, or even as a tool for learning English as a second language. (\$7.99/\$3.99)



ArtikPix



Full version 2.2 is an exciting update to the engaging articulation app with flashcard and matching activities for children with speech sound delays. The highly requested group scoring feature is available for collecting scores in flashcards on up to 4 children at a time. A group of students can now collect data as they practice sounds in words and sentences with a speech-language pathologist, their parents, or independently. (\$29.99/\$14.99)

Articulation Station Pro



Each of the 22 sound programs target sounds in the initial, medial and final positions of words, sentences and stories. The majority of sounds (p,b,m,d,n,t,k,g,f,v,ch,j,z,sh,th) have 60 target words each. Some sound programs (l,r,s) are targeted in blends as well and have even more target words! All together Articulation Station Pro has over 1,000 target words! (\$49.99/\$24.99)

Speech Sounds on Cue for iPad



This application shows how to produce speech sounds and words and encourages speech, even in people with severe speech difficulties. This easy to use iPad application contains over 500 videos, sound clips and color photos designed to help adults and children to produce the consonant speech sounds in isolation, in words and in sentences. Now includes recording, playback, rhyming words and randomization. (\$149.99/\$74.99)

SLP Minimal Pairs Full



SLP TechTools Minimal Pairs is a speech therapy app developed by speech language pathologists to assist SLPs as they target phonological and articulation disorders in children, pre-Kindergarten through 6th grade. The app includes fun and engaging pictures of 367 words to facilitate discrimination and accurate production of speech sounds. It covers 8 commonly used phonological processes: Final Consonant Deletion, Fronting, Cluster Reduction, Prevocalic Voicing Gliding, Stopping, Depalatalization, Deaffrication and Gliding. Three practice formats include: auditory discrimination, contrast drill, and repetition drill. Progress monitoring in client history tracks improvement and allows users to observe improvement over multiple speech therapy sessions. (\$29.99/\$14.99)

Find Me(Autism)



Find Me is an app designed to help young children with autism practice simple social skills. It is suitable for play by children with an ability level equivalent to 18 months or over, and doesn't require any language or reading. (\$Free)

Proloquo2Go

Proloquo2Go provides a full-featured augmentative and alternative communication solution for people who have difficulty speaking. It provides natural sounding text-to-speech voices (CURRENTLY AMERICAN, BRITISH and INDIAN ENGLISH ONLY), high resolution up-to-date symbols, powerful automatic conjugations, a default vocabulary of over 7000 items, advanced word prediction, full expandability and extreme ease of use. (\$189.99/\$94.99)



Behavior Tracker Pro

Behavior Tracker Pro for Autism is an iPhone, iTouch and iPad application that allows BCBAs, behavioral therapists, aides, teachers or parents to track behaviors and automatically graph them. Export the data for offline manipulation. Dramatically improves the process of teaching and treating



children with Autism! Supports unlimited number of children and observers! (\$29.99/\$14.99)

Autism Tracker Pro



Autism Tracker can be life changing for families with an autistic child. Explore Autism. Track what matters to your child and your family. Use the visual calendar and multi-item graphs to view and discuss patterns. Share individual events or entire screens with your team using email or Twitter (Twitter lets you set up closed groups). (\$19.99)

Verbally Premium



Verbally Premium is a full-featured augmentative & alternative communication (AAC) app for the iPad that brings speech to those without. Verbally Premium has the same intuitive design as Verbally, but also includes a host of expanded features to make real conversation a reality. (\$99.99/\$49.99)

Abilipad



Abilipad combines the functionality of a notepad with word prediction, text-to-speech and a customizable keyboard, putting advanced writing tools within everyone's reach. (\$19.99/\$9.99)

Sono Flex



Tobii Sono Flex is an easy to use AAC vocabulary app that turns symbols into clear speech. It offers language to nonverbal users who are not yet in full control of literacy. Sono Flex combines the benefits of structure and flexibility, providing a framework for language development, quickly matching individual and situational communication needs. Tobii Sono Flex has been designed to be easy to operate and easy for SLPs, teachers, parents, caregivers or other communication partners to setup and customize. (\$99.99/\$49.99)

Pictello



Pictello is a simple way to create talking photo albums and talking books. Each page in a Pictello Story can contain a picture, up to five lines of text, and a recorded sound or text-to-speech using high-quality voices. Stories can be shared using iTunes File Sharing or via WiFi with other Pictello users through a free account on the Pictello Sharing Server. Stories can be shared with non-Pictello users as PDF files through email or iTunes File Sharing. (\$18.99/\$9.49)

See.Touch.Learn Pro 2012



See.Touch.Learn.™ is a picture learning system designed by professionals specifically for those with autism and other special needs. See.Touch.Learn. makes traditional picture cards obsolete. Parents and professionals use See.Touch.Learn. to build custom picture card lessons and automatically track their child's responses. (\$24.99/\$12.49)

ABA Flash Cards - Alphabet



Kindergarten.com's Alphabet Flash Card set offers 26 clear, concrete photos presented against a non-distracting white background. With early learners in mind, we've included a simple question at the bottom of the page to encourage children to think of other words that begin with each letter in the alphabet. Links to iPads and Autism. (\$.99/\$.49)

Check out more of ABA (Applied Behavioral Analysis) apps by Kindergarten.com. They are well received and reasonably priced.

StoryBuilder for iPad



Story Builder is designed to help children accomplish the following educational goals: 1) Improve paragraph formation; 2) Improve integration of ideas; and 3) Improve higher level abstractions by inference.

Extensive use of audio clips promotes improved auditory processing for special needs children with autism spectrum disorders or sensory processing disorders. (\$7.99/\$3.99)

Apps for Autism: Communicating on the iPad

http://www.cbsnews.com/8301-18560_162-20124225/apps-for-autism-communicating-on-the-ipad/

This is the script from the 60 Minutes piece aired October 11, 2011.

Autism Speaks Suggested Apps

<http://www.autismspeaks.org/family-services/autism-apps>

Autism Speaks is dedicated to funding research into the causes, prevention, treatments and a cure for autism; increasing awareness of autism spectrum disorders; and advocating for the needs of individuals with autism and their families.

iPad Apps & Resources for People With Autism : Reviews, Links, Prices

<https://spreadsheets.google.com/pub?key=0AjbIta8OTS0KdHRMVWx0Q3pvOWRXXBfd01jc3lqakE&hl=en&single=true&gid=0&output=html>

Large spreadsheet of apps by categories. Includes links to resources and research.

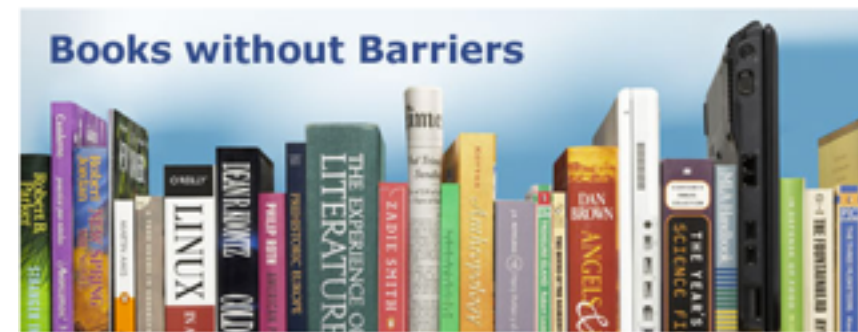
Section 2

eBooks

The history of eBooks dates back to the 1990's when portable devices like Apple's Newton or the Rocket eBook Reader hit the market. Microsoft jumped into it with a reader for the computer, Palm added the idea with their PDA, but it wasn't till the mid 2000's when Sony released the eReader that began catching the eye of the mainstream consumer. Sony began to build the market eventually to be joined by the Kindle, then the Kobo and Nook. By 2010, there were over a dozen eReaders on the market when the iPad 1 was released. The iPad change the way books were accessed. Now I can access the books I buy from Barnes and Noble on my Nook or iPad, the same with the Kindle.

To open up a book document in an eReader or through an app , check to see what type of file it is saved as. Almost all readers open up books saved in a file format called .epub. The only reader that lacks the support for .epub is the Amazon Kindle (only the Fire supports ePubs).

In this section I have added links to eBook Websites and book apps for your iPad.



eBook Websites

"Accessible Books and Periodicals for Readers with Print Disabilities

- Bookshare® is free for all U.S. students with qualifying disabilities, thanks to an award from the U.S. Department of Education Office of Special Education Programs (OSEP).
- Bookshare dramatically increases the accessibility of books. People with disabilities deserve the same ease of access to books and periodicals that people without disabilities enjoy.

- A searchable online library. Bookshare offers over 134,000 digital books, textbooks, teacher-recommended reading, periodicals and assistive technology tools.

- Readers of all ages. Bookshare offers affordable membership, unlimited library privileges and a community of Members, Volunteers, parents, publishers and authors.”

-www.bookshare.org



“The California Department of Education (CDE) Clearinghouse for Specialized Media and Translations (CSMT) produces accessible versions of textbooks, workbooks and literature books adopted by the State Board of Education. Production and dissemination of materials include braille, large print, recordings, and American Sign Language Video-books are funded by California's Instructional Materials Fund (IMF). CSMT also assists in providing devices such as monoculars to view the curricula. Funds to purchase specialized books, materials, and equipment are provided by the IMF for qualified students with hearing or vision impairments, severe orthopedic impairments, or other print disabilities.”

- <http://www.cde.ca.gov/re/pn/sm/index.asp>

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The Online Books Page

onlinebooks.library.upenn.edu

“The Online Books Page is a website that facilitates access to books that are freely readable over the Internet. It also aims to encourage the development of such online books, for the benefit and edification of all.”

<http://onlinebooks.library.upenn.edu/>



“California’s Free Digital Textbook Initiative was created to provide students, teachers and parents access to free digital high school textbooks that meet California’s rigorous academic content standards.”

<http://www.clrn.org/fdti/>

Book Apps

There are multiple book apps available in the App Store. I pulled the six **free** apps you are probably familiar with. All of the apps require an account to download books, offer a small selection of free items, and connect with over 1,000,000 books, magazines and newspapers.

iBooks is what you are using to read this book. Able to read both PDF’s and ePubs, iBooks is a natural part of the iPad. Besides a repository for your eBooks, documents you create in Pages or Word can be saved as a PDF and placed into iBooks. This is a simple way to customize the information student’s access. iBooks also has the ability to add notes and define words. The Apple Volume Voucher program can be used to buy eBooks downloadable to iBooks.



Apple’s **iTunes U** is one of your best sources for free education material. iTunes U is filled with books, videos, podcasts, and textbooks. An important note: make sure to vet what you are downloading for accuracy of the information.

Google Books is a great resource. Accessible online, through the Google Search app, or Google Books, the books automatically sync when you sign into your account. You cannot buy books through this app, it is strictly a reader. Books must be bought on the website.



Amazon’s **Kindle** app connects with your Kindle account. You can share books between your Kindle and iPad Kindle app. The Kindle app has notes, definitions and reads PDFs.



Barnes and Noble’s **Nook** offers more than 2,000,000 titles including magazines and newspapers. Highlighting, note taking and a Merriam-Webster pocket dictionary are included.



Kobo claims over one million free books plus many affordable books. Connects to Facebook, Twitter, Instapaper and Dropbox.

OverDrive Media Console- Library eBooks and Audiobooks



Download eBooks and audiobooks from your library directly to your iPhone, iPad, and iPod Touch!

OverDrive Media Console gives you on-the-go access to eBooks and audiobooks from your public, school, or college library. More than 18,000 libraries worldwide offer best-selling and classic titles via OverDrive, so use the 'Get Books' feature in the app to find a library near you.

How do library eBooks and audiobooks work?

Digital titles from your library are borrowed just like print material. Once you find your library using 'Get Books,' you can browse your library's digital collection on the web, check out a title with a valid library card, and download the title directly to your iPhone, iPad, and iPod Touch.

While borrowing the digital title, you can enjoy it using the app's eBook reader or audiobook player. Each EPUB eBook and MP3 audiobook that you check out has a lending period. The title automatically expires in the app at the end of the lending period, so there's never a late fee. There's even a handy countdown clock built into the app so you know how long you have to read or listen before the title expires. (\$Free) Check out Orange County Public Library and OverDrive at <http://ocpl.lib.overdrive.com/00C3C05D-B101-4A34-A290-3DC397167FCF/10/432/en/Default.htm>

Destiny Quest



Go beyond the walls of your library with the Destiny Quest Mobile App! Search your library catalog -- anytime, anywhere! Available for the iPhone, iPod Touch and iPad, this app puts the powerful searching capabilities of Destiny Quest -- in the palm of your hand. (\$Free)

Teacher's Corner



Here is a collection of eight special education teachers and ways of incorporating the iPad into the classroom.

"I use the iPad to display interactive e-books for the students

eBooks help with Comprehension during small group work. The book is chosen based on the developmental and cognitive abilities. The iPad provides a more engaging experience for the students because they can touch the pages and have more control over their learning by making choices and exploring the books independently. For students with limited fine motor abilities, the iPad is an easier modality to activate the features of an e-book. After students have finished the e-book follow up questions are displayed on the iPad to evaluate student comprehension of the book and to allow students to demonstrate their analysis of age appropriate text, for example

who, what, and where questions. The iPad improves my ability to measure student comprehension because the student can touch the answer to the question or verbalized, which meets the needs of all students including those with language impairments."

-Nicole Salazar, Teacher, Pre-K SUCCESS

"Being able to show the students the video models I've created during our large group learning time rather than having to have them all crowd around the teacher computer. The young students are very engaged. They get out of their chairs to point to the correct answers, but they can't reach the screen, and even if they could, nothing happens until I move the mouse. With the iPad, when their finger touches the screen, that touch reinforces them by showing if they got the correct answer. They are learning the information as well as learning how to navigate the world of technology. I use the iPad in the classroom during large group learning times to increase student engagement, participation, and learning. I use apps such as Starfall to teach early literacy and The Tally Tot Numbers to teach counting. the iPad during large group learning time also reinforces the

student's good behaviors such as sitting quietly in their chair because only the students demonstrating those behaviors would get to participate in the activity. The



touch screen means that the students will get instantly reinforced when the answer is correct. **Touchpad provides feedback**
In Autism we work on the principals of ABA, which means that for every action that the students makes, there is positive or corrective feedback. The iPad provides the student with feedback, which means that the student would be getting verbal feedback from me, and visual feedback from the iPad. This could have a tremendous impact on the learning curve of the students because students with Autism "need instant, supportive feedback for improving of accelerating their academic performance." Using the iPad will increase their comprehension of academic concepts while also preparing them to be information fluent in the future because of their early exposure to technology."

Mackenzie Nolan, Preschool SUCCESS (Autism)

"An iPad helps break down the communication barrier that exists in my classroom. The iPad has an application similar to the PECS system; however, it has a voice output device. The iPad is the voice for my students and helps eliminate the behaviors that come with the frustration of not being able to speak. It also

increases their initiative to communicate with others and increase their social skills, which is a deficit for students with Autism. The iPad is a new technology that engages my students, increases their attending skills, and creates a new way to learn curriculum."

Jeanne Kretzschmar, Teacher, K-2nd SUCCESS

"I work to increase student information fluency by providing the students with an easy fun way to communicate; through the use of pictures and other applications in the iPad. I will increase their exposure to technology and increase their communication skills. The internet is accessed through the iPad touch screen to research class subjects in Science, Social Studies and Language such as Sign Language. The students in my class often have dexterity problems and are unable to make appropriate selections through the use of a computer mouse. An iPad assists in effective



iPad assists in effective communication

communications for the students with language delays and dexterity difficulties.”

Maria D. Miyashiro, K-3rd SDC-SH

“In small groups, some students may be searching grocery store ads for food prices for a class banking/math project, other can be on the iPad comparing prices between many stores locally, in another state, or abroad to find out how the economy



Pronounces correct geographical names

affects food prices in varying places. While some students are working with sight word flash cards or gathering information on animals specific to California through content literature books, another can be on the iPad listening to correct pronunciations of vocabulary related to the geographical features of California or hearing what an animal sounds like within its natural habitat. Fine-motor skills are usually very difficult for my students, being able to type/publish or draw what they wish to communicate about a topic or idea rather than write their thoughts promotes less frustration and more excitement with the overall writing process. The technology can give nonverbal students or students with limited speech a voice.”Veronica Salgado, Moderate/Severe, 3rd-5th

“I use the iBooks app with informational text to improve reading fluency and comprehension for students with print/learning disabilities, using features such as, changing background colors or highlighting words for students with visual processing disorders and changing the font of iBook to accommodate students with dyslexia. I use Flashcard Deluxe as a strategy to practice high frequency word knowledge.”

Angela Sleiman, Mild/Moderate 4th-5th

“My students are moderate to severely challenged. With the use of the iPad, my students are using a tool that integrates multiple learning styles (Auditory, visual, kinesthetic) into their instruction. Being able to incorporate an iPad into my instruction gives the students one more way to be effective in their expression of knowledge. Many of my students have limited expressive language, yet are higher receptively. Being able to demonstrate competency on an iPad greatly increases the communication level between the student and teacher.”

Lynne Strudivant, Special Education, K-5

“I use the iPad with students on a one-to-one basis as we work to meet their IEP goals. Each student has an individual iPad Plan which targets their specific needs, IEP goals and objectives. Several students have difficulties with fine motor coordination and letter formation. I work collaboratively with the district's OTs on IEP goals that address these needs. Apps that include alphabet

tracing are particularly helpful. Working with the district's Speech Therapists, AT, and AAC Specialist, specific communication goals are addressed through apps such as iCommunicate and iComm. Apps like Dragon Dictation allow students to dictate stories and work on language fluency. Interactive stories and text to speech applications allow students to hear written text, multiple times as necessary. Drawing and photo apps allow student who are primarily nonverbal to communicate with a wider audience. The Grace app allows nonverbal students a greater sense of dignity throughout their day by being able to communicate their needs through building sentences from relevant images.”

Charleen Morales, Special Ed Moderate - Severe Grades 6-8

***Drawing and photo apps
allow student who are
primarily nonverbal to
communicate with a
wider audience.***



iPads are a pathway to communication

Chapter 4

Reinforcement and Enrichment

Take a step back and rethink how we approach student learning. The learning cycle has changed. The digital age has accelerated the data flow to all students. Therefore, the learning does not start nor end with the classroom. The classroom works to structure the data and the catalyst to ignite student minds.

iPad App Do's and Not's

In my wayward search for apps, I made a small list of the golden do's and not's of searching and downloading education apps.

The Do's:

When searching for an app:

- Try out lite or free apps before purchasing if possible
- Clearly read the information provided in the App Store that the seller has posted, read all of it!!! Many times there is important information that you will have wished you read and saved yourself that \$3.99.
- Read the customer feedback for an app on the App Store. Sift through the ratings, read some of the top rated and the bottom rated feedback.
- Watch for apps that are free for a day or two (there are multiple websites that track free apps)
- Read the left side of the Check and verify that your device meets the systems requirements

The Not's:

When searching for an app:

- Do not use apps that contain ads or links to websites with students
- Do not purchase apps that rely on "in-app purchases", district funds cannot be used for in app purchases. Check the info column on the left side in iTunes. If there are "in-app purchases", they will be listed there.
- Do not purchase apps that require a device with a camera if you are using an iPad 1

When you have multiple users and iPads it is good practice to establish some common standards apps in addition to the ones that come loaded on the iPad. This will ensure that if you send out a document everyone can read it.

Lets say I send all of my colleagues a fill-in-check box PDF form. They need to check the necessary boxes and place their signature at the bottom before they send it back to me. Only one PDF app will do this, PDF Expert. If we didn't have a standard, many of my colleagues would open the document in a PDF app but find the check boxes missing. A core list of standard apps is essential.

Example of Suggested Standard App List (Second price feature indicates the Apple Volume Voucher Program 20+ purchase

Productivity and Business

- *Pages, Numbers* and *Keynote* (iWorks) by Apple \$9.99/\$4.99 each
- *QuickOffice Pro HD for iPad* by Quickoffice, Inc. \$19.99/\$9.99
(It is important to have two options to open office type of documents)
- *PDF Expert* by Readdle Inc. \$9.99/\$4.99
- *Notability* by Ginger Labs, Inc \$0.99/\$0.49 or *Evernote* by Evernote, Inc. \$Free
- *Group Email! Mail with Attachments* by Andrea Vettori \$4.99/\$2.49 (Optional: Intended for those who wish to create and use email distribution lists)

Utilities

- *Photon Flash Web Browser* by Appsverse Inc. \$4.99
- *Find My iPad* by Apple \$Free
- *Dragon Dictation* by Nuance Communications, Inc. \$Free
- *Google Search* by Google Mobile \$Free (Found under the Reference Category)

Interactive Creators

- *Educreations* by Educreations, Inc. or *ShowMe Interactive Whiteboard* by Learnbat, Inc. Both are \$Free
- *Sketch for iPad* by Evernote \$Free

Books

- *iBooks* by Apple \$Free
- *iTunes U* by Apple \$Free
- *Google Books* by Google Mobile \$free

Reference

- *Dictionary.com* by Dictionary.com, LLC or *Merriam-Webster Dictionary* by Merriam Webster, Inc. \$Free
- *Merriam- Webster Dictionary HD* - Premium by Merriam-Webster, Inc. \$3.99/\$1.99 (ad free version)
- *Wikipanion* by Robert Chin, \$Free or *Wikipedia Mobile* by Wikimedia Foundation \$Free
- *Google Translate* by Google Mobile \$Free

Desktop Remote

- *Splashtop Whiteboard* or *Remote* by Splashtop, Inc. \$19.99/\$9.99
- *Ignition* by LogMeIn, Inc. \$99.99/\$49.99

Photography

- *Adobe Photoshop Touch* by Adobe Systems Incorporated \$9.99/\$4.99
- *iPhoto* by Apple \$4.99/\$2.99

iPads and Administration

The Power of an iAdministrator!



iAdministrator

The iAdministrator is a constant emailer, calendar checker, Internet surfer, PDF reader, idea brainstormer, scanning whiz, note taking expert, document dropper and finally an insightful innovator (where there's an app there's a way!)

The iPad offers endless possibilities to streamline work and organize information quickly. Here are just a few possibilities to enhance your efficiency.

- Email, Calendar and Contacts synced to Outlook
- Word processor features i.e. Pages or QuickOffice
- Functions of internet browsers i.e. Safari, Photon, Google
- Note taking i.e. Note Taker HD, WritePad, Penultimate
- Organization of PDFs i.e. iAnnotate, iBooks, Officedrop
- Presentation tools i.e. Keynote, QuickOffice, Ideas
- Use as a document scanner i.e. CamScanner, ScannerPro
- Flow of information i.e. iTunes, Dropbox, LogMeIn



Educational Technology Dept.
Alexandra Ito,
Director
Office: 714 480-4771

Contact:
David Lofink
Curriculum Specialist
david.lofink@sausd.u

The iPad 1 App 1 Hour Series

The iPad 1 App 1 Hour Series offers training on educational apps found in the Apple App Store.

- Classes focus on one app for one hour
- Participants are encouraged to bring an iPad 1 or iPad 2
- Participants who bring a device will be supplied with the app at no cost
- iPad 2 devices are also available for use during the training hour

Class Requirements:

- All Participant iPads must be running IOS 5
- If bringing an iPad, your iTunes account is set-up with a district email
- Participants have a basic knowledge of using the iPad

Information:

- All classes are on Fridays from 9 a.m. to 10 a.m.
- Classes are located in the computer training room 106 at the district office
- Sign up on Oracle to attend one, two or all of them
- Scan the QR Code** for more information on iTunes about the app
- For additional information contact Education Technology at x74771



Date & Requirements	App	Type of App
February 17, 2012 iPad 1 or iPad 2	Notability*	Category: Productivity Notability is a note-taking app that includes audio, handwriting, PDF annotation, and media insertion.
March 2, 2012 iPad 1 or iPad 2	Pages	Category: Productivity Pages is Apple's mobile word processor for the iPad/iPhone. Works with iCloud for greater accessibility to your documents.
March 23, 2012 iPad 1 or iPad 2	Keynote	Category: Productivity Keynote is Apple's presentation app, complete with animated charts and transitions, and the ability to save as a PowerPoint.
March 30, 2012 iPad 1 or iPad 2	Quick Office*	Category: Business Quickoffice Pro HD allows you to Create, edit, & share Microsoft Office Documents, spreadsheets, and presentations.

April 20, 2012 iPad 1 or iPad 2, Basic Excel knowledge	Numbers	Category: Productivity Numbers is designed to create spreadsheets in minutes with tables, charts, photos, and graphics. Works with Pages, Keynote and iCloud.
April 27, 2012 iPad 1 or iPad 2	iAnnotate*	Category: Productivity iAnnotate is a PDF annotation app, allowing users to read, annotate, organize, and share their PDF's.
May 4, 2012 iPad 1 or iPad 2 to create, iPad 2 as a reader	Qrafter Pro	Category: Utilities Qrafter Pro is a QR reader and generator. What is a QR? It's a two-dimensional barcode that connects people to information.
May 11, 2012 iPad 1 or iPad 2	Photon Flash Web Browser	Category: Utilities Photon Flash Web Browser app is a tabbed web browser designed to support Flash browsing on the iPad.
May 18, 2012 iPad 2 only	iMovie	Category: Photo & Video With iMovie make a movie in minutes by adding video, photos, music and sound effects.
June 1, 2012 iPad 1 or iPad 2	CloudSurfer*	Category: Productivity/Utilities CloudSurfer is a web browser supporting Firefox Sync, Dropbox Sync, saving webpages as eBooks, and using multi-gestures.
June 8, 2012 iPad 1 or iPad 2	Garageband	Category: Music GarageBand turns your device into a collection of Touch Instruments and a full-featured recording studio. Mixes up to eight tracks to create a song you can share (AAC).

*To get the most out of this session it is highly suggested you have a Dropbox account and know your information to access it. To open a free Dropbox account go to www.dropbox.com or download the free iTunes app.

**What are QR Codes? Quick Response Codes are a type of 2-D barcode that can hold quite a bit of information. This information can be uploaded to a device when scanned. The QR Codes on this flyer will send you to iTunes to reveal more information about the iPad app. If you need a free QR code reader, try one of these on iTunes (requires iPad 2):



Sample flyer of an iPad series of trainings on apps. Short trainings of district used apps promotes continuity.

Section 2

Productivity and Business

You might be wondering what Productivity and Business apps have to do with Reinforcement and Enrichment?

These are the sections we find word processing, note taking, dictation, desktop remote, PDF readers, and data management. Now I have your attention?

Every iPad needs some basic word processing, presentation and spreadsheet ability.

Found under Productivity, the premiere iPad app suite for working with word documents, presentations and spreadsheets



is iWorks, sold as three different apps: **Pages**, **Keynote** and **Numbers**

(\$9.99/\$4.99). iWorks started on the Mac Computer and was recreated from the ground up for the iPad.


Found in Business, **QuickOffice Pro HD** (\$19.99/\$9.99) is a solid alternative to Pages, Keynote and Numbers.



Top Selling Productivity

TOP CHARTS	
Paid Apps	See All >
	
1. Pages	Productivity
2. Notability	Productivity
3. Penultimate	Productivity
4. Numbers	Productivity
5. Keynote	Productivity
6. GoodReader for iPad	Productivity
7. Noteshelf	Productivity
8. Documents To Go® - Office Suite	Productivity
9. Note Taker HD	Productivity
10. Remarks - Write notes and Anno...	Productivity

Top Selling Business

TOP CHARTS	
Paid Apps	See All >
	
1. Quickoffice Pro HD – edit office ...	Business
2. Splashtop Remote Desktop for i...	Business
3. Documents To Go® Premium - ...	Business
4. Office² HD	Business
5. PrintCentral	Business
6. Voice Actions	Business
7. PDF Reader Pro Edition for iPad	Business
8. Jump Desktop (Remote Desktop)	Business
9. Audio Memos - The Voice Recor...	Business
10. AudioNote - Notepad and Voice ...	Business

Most documents from Microsoft Office Word, PowerPoint and Excel can be opened up in one of these apps. It does take awhile for apps to catch up with new versions of Office. QuickOffice 4.0 is now Office 2010 compatible. I suggest you have both. Its good to have a back up!

The newest type of office productivity is similar to Google Apps. Through an app and a constant wireless connection you can view a virtual desktop with the power of the whole Microsoft Office Suite. At this time I cannot recommend any of these apps. The technology for a constant wireless connection with native intuitive movement is not yet perfected.

Taking notes is a classic school skill. But what if your notes can contain photos, audio, drawings, drawings on the photos, text (both type and handwriting), bullets, different colors, highlighters and the ability to categorize them? This gives students the ability to take notes in their own style. The number one downloaded




paid note taking app, **Notability** (\$.99/\$.49) gives all of this and more without the need for an account. It can connect to online storage accounts such as Dropbox. Its our district standard note taker.

When searching and selecting apps, be sure to read the app description, the requirements, see if there are any In-App purchases, and read the customer reviews. A good example is **Microsoft OneNote for iPad**. (\$Free) Microsoft created an offshoot of



Top Free Productivity Apps


Free Apps [See All >](#)



1. **Adobe Reader**
Business
2. **Dragon Dictation**
Business
3. **Embracing Change**
Business
4. **Documents Free (Mobile Office ...**
Business
5. **Monster.com Jobs for iPad**
Business
6. **Citrix Receiver.**
Business
7. **QuickVoice® Recorder**
Business
8. **WebEx for iPad**
Business
9. **Teambox HD**
Business
10. **GoToMeeting**
Business

Top Free Business Apps

Free Apps [See All >](#)



1. **Dropbox**
Productivity
2. **Microsoft OneNote for iPad**
Productivity
3. **Doodle Buddy for iPad – Paint, ...**
Productivity
4. **Evernote**
Productivity
5. **Gmail**
Productivity
6. **LogMeIn**
Productivity
7. **Xfinity Mobile**
Productivity
8. **OnLive Desktop**
Productivity
9. **Calculator+**
Productivity
10. **CloudOn**
Productivity

their tablet OneNote software. First glance this sounds great, especially at the charge of free! On further reading you will find

out you are limited to 500 notes. You can add more notes for an In-App purchase of \$14.99, something educators using the Volume Voucher Program cannot buy. 500 may seem a lot of notes but if you are trying to establish a standard notetaker, this one will not work. To use the app it requires a Windows Live ID and syncing to Microsoft's online storage SkyDrive. Additionally, many of the Customer Reviews complain about the outline feature missing and having very few features of the PC version. Microsoft OneNote at this time would not be a good choice at this time.



The other popular notetakers are **Evernote** (\$Free), **Good Reader**

(\$4.99), **Penultimate** (\$.99/\$.49), and **Note Taker HD** (\$4.99/\$2.49), all of which are excellent choices. In the end, digital note taking is all about personal preferences.

In the PDF world, I thought Adobe would dominate. The free **Adobe Reader** does just that, and not much else. Very disappointing as all note taking apps, iBooks and your email open PDFs. So when you are looking at apps, the question is which app gives you the most bang for your buck? There are two PDF apps I use. Both are connected to Dropbox and will open



your email PDFs. The first is **iAnnotate** (\$9.99/\$4.99) a power app that allows you to annotate your PDF in multiple ways, then repackage and send it back out.

PDF Expert (\$9.99/\$4.99) is our standard app for PDFs. It can read, annotate, complete fill in the blank forms, has a section for a signature, create notes, wirelessly syncs with a computer, and the Readdle Inc. has excellent customer service.



A different type of note taking app is audio dictation.

The best and stand app is **Dragon Dictation** (\$Free).

The free app version of the popular PC software requires your iPad to be on a wireless network in order for it to sync with its server. Press record, say your information, stop the recording and with the help of the Dragon Dictation server your words are digitized on the screen. You can then email them, copy and paste on another app, etc.



There are many ways to move information on and off an iPad, but online storage hosting sites are becoming very popular. The



mobile world has seen several of these but **Dropbox** (\$Free) has become the dominant storage company. They have an app, integrated into over a hundred apps, and pc/mac software. Dropbox is makes it very easy to access your files uploaded to your Dropbox account.

Productivity and Business are all about the creation and flow of data. The traditional learning cycle has morphed and will never be back again. The ability of these apps to stream and receive digital files anywhere in the world, even space, challenges the modern educator to rethink how we do business.

Section 3

Browsers

As productivity or business apps connect to the internet, internet browsers, found in the Utilities category, are becoming more than just a connectivity to the internet tool.



The default web browser for the iPad is Apple's **Safari**, the number one mobile internet app. Safari cannot be deleted from the iPad, only turned off in the Restrictions setting. When opening up web links in your email, App Store, etc., Safari automatically opens up to the linked website. Safari has the ability to create a bookmark on the Home Screen, create a reading list, or mail a link to a page.



All the major computer web browsers offer a **free** app for the iPad. **Google** offers a browser with voice recognition for input as well as **Bing** by Microsoft. **Firefox Home** syncs the bookmarks on your computer's Firefox browser. **Opera Mini** offers a visual of the different websites bookmarked on the homepage. **Yahoo!**

and **Yahoo Search** are apps for quick access to news, mail, search and all its linked sites. (\$Free)



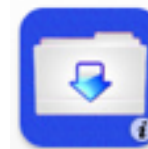
CloudSurfer links your computer's Firefox bookmarks and turns online articles into eBooks, a handy feature. \$2.99/\$1.49



Skyfire offers a quick-link tool bar at the bottom: Facebook, Twitter, Fireplace, Google Reader, and opens Flash videos. \$4.99/\$2.49

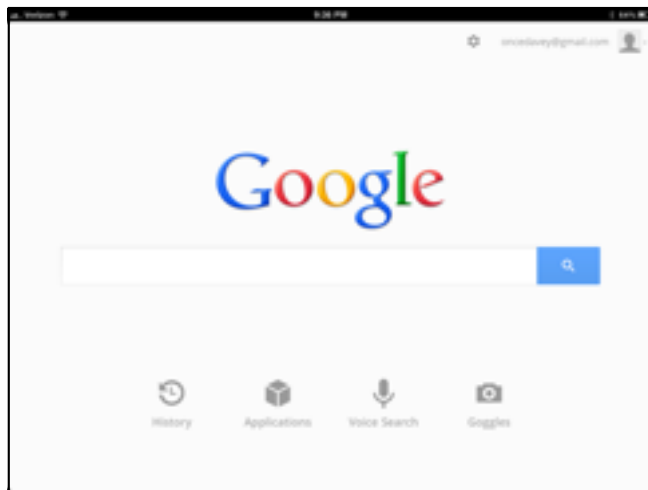


Photon Flash Web Browser allows viewers to access most Flash-based websites. You can also split the screen three ways and offers picture-in-picture. \$4.99



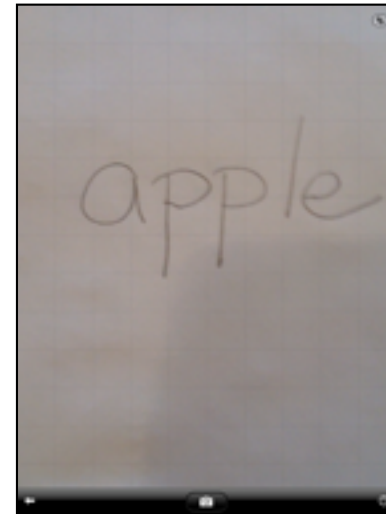
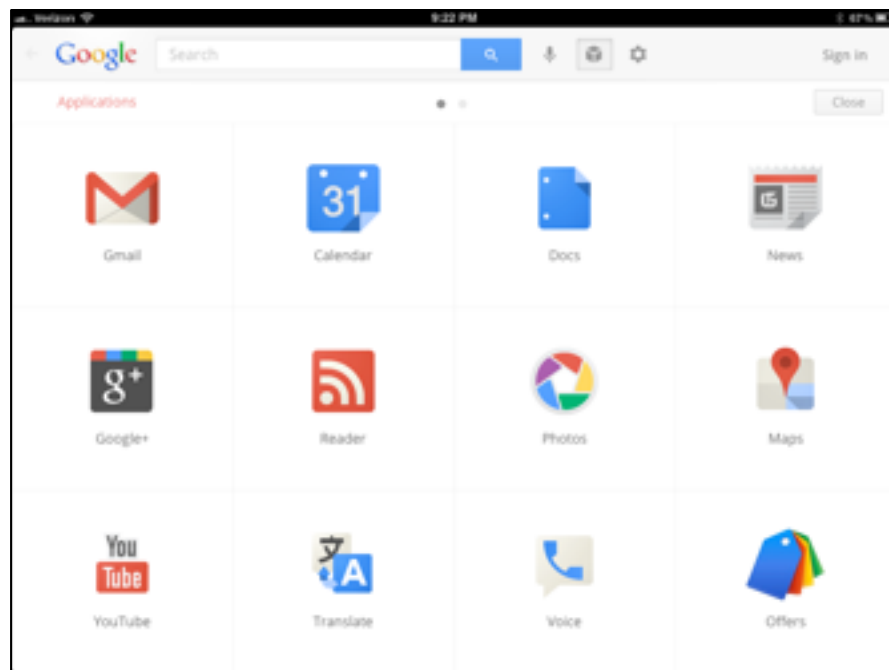
Falcon Downloader (**Peregrine** is the free version) is able to download files on the internet to the app where it is stored, filed and can be played back later without the need for wireless. Files include video, audio and documents and can be organized into playlists. These files do not integrate into the Music and Videos apps. \$2.99

Google Search deserves a little more discussion. Besides its



basic search written and voice search, Google Search has quick links to its applications and Goggles.

The Google Applications are: Gmail, Calendar, Docs, News, Google+, Reader, Photos, Maps, YouTube, Translate, Voice, Offers, Finance, Earth, Books, Blogger and Currents.



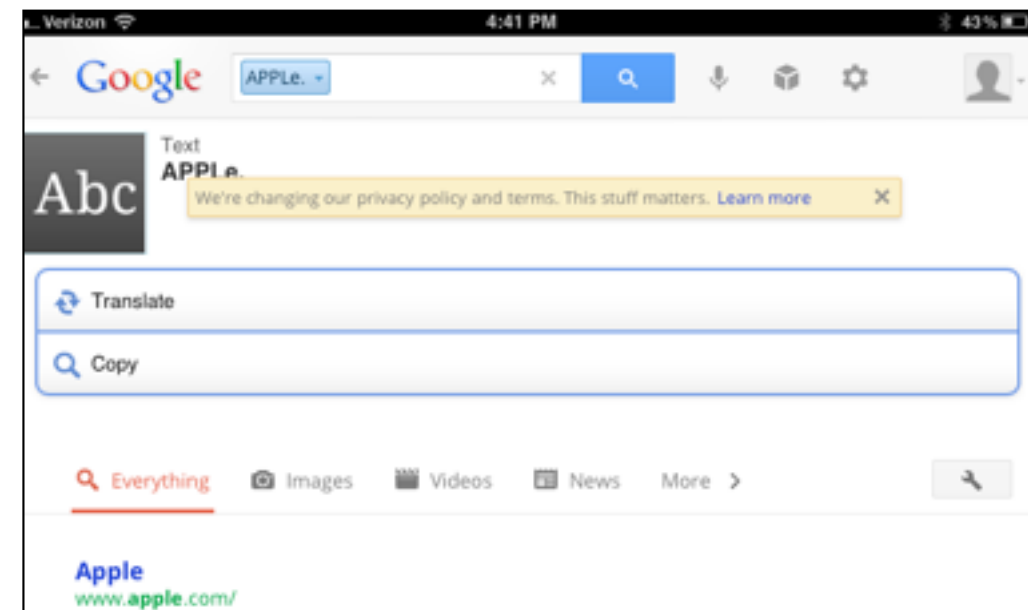
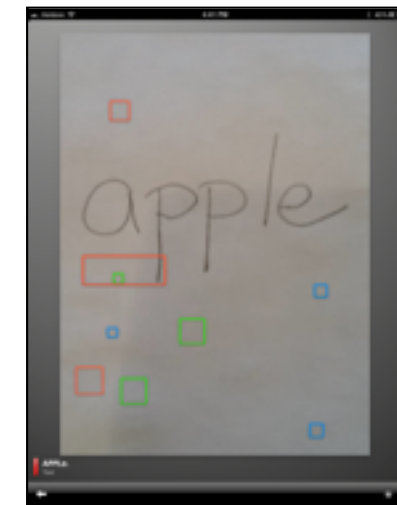
Goggles actually helps the searcher with existing text. Take a photo of something with text.

I wrote apple on a piece of paper. Tapped on Goggles and tapped the shutter button.

Goggles then analyze the text and pops

up with suggested search words at the bottom of the page.

Tap on one of the key words and the Google Search appears. Additionally, there is a translate tool available



Apps that Support

Here are some apps that support other media or devices to enhance the classroom experience.

Photography Apps

Adobe Photoshop Express



Adobe Photoshop Express software lets you use simple gestures to quickly edit and share photos from your mobile device. Enjoy having your photo and video library right in your hand — without wasting your device's valuable storage space. (\$Free)

Adobe Photoshop Touch



Transform images with core Adobe® Photoshop® features in an app designed for tablets. Combine images, apply professional effects, share results with friends and family through sites like Facebook, and more — all from the convenience of your iPad. (\$9.99/\$4.99)

iPhoto



With iPhoto for iOS, Apple brings Multi-Touch to photography in a breakthrough way. Browse, edit, and share your photos from your iPad or iPhone, like never before — all the powerful tools you need are at your fingertips. And with iCloud, you can share your experiences as stunning photo journals. (\$4.99/\$2.49)

Video Apps

iMovie



Make beautiful HD movies anywhere with iMovie, the fast and fun moviemaking app that puts everything you need to tell your story at your fingertips. Browse and play projects in the Marquee view. Create spectacular trailers and thrilling home movies in minutes.* And share your finished projects with the world — right from iMovie. (\$4.99/\$2.49)

Avid Studio



Big-screen moviemaking comes to the touchscreen with Avid® Studio for iPad. We've distilled the world's leading film-editing technology into an easy-to-use app that enables you to edit video, audio, and photos at the speed of your creativity. (\$4.99/\$2.49) This app is compatible with the iPad 1.

Desktop Remote Apps

Splashtop Whiteboard



Splashtop Whiteboard allows teachers and students to turn their iPad into an interactive white board. Once connected to their computer over Wifi, they can watch Flash media with fully synchronized video and audio, control PC and Mac applications then annotate lesson content all from an iPad. Now interact with students at their desk or present from all four corners of the class! (\$19.99/\$9.99)

Splashtop Remote Desktop for iPad



This is the ONLY remote desktop app that streams video and audio from your PC or Mac, allowing you to interact with your PowerPoint, Keynote, Word, Excel, Outlook, Quicken, IE,

Firefox, Safari, World of Warcraft, and other PC / MAC applications. (\$19.99/\$9.99)

Ignition



Remotely control your PC or Mac, plus view, transfer and save files or folders from your iPad or iPhone. Ignition is a one-time purchase that runs on both your iPad and iPhone and works with LogMeIn software on your computers. Install

LogMeIn software on an unlimited number of remote computers, and you'll be able to access them all from your iPad and iPhone. (\$99.99/\$49.99)

Printer App

Printer Pro



Printer Pro is the application that lets you wirelessly print from the iPad. It can print directly to many Wi-Fi printers and to any printer attached to your Mac or PC via helper application installed on your computer. TRY BEFORE YOU BUY - just download free **Printer Pro Lite** to check how our application works with your printer.

Interactive Drawing

Educreations Interactive Whiteboard



Educreations turns your iPad into a recordable whiteboard. Creating a great video tutorial is as simple as touching, tapping and talking. Explain a math formula... Create an animated lesson... Add commentary to your photos... Diagram a sports play... (\$Free)

ShowMe Interactive Whiteboard



Turn your iPad into your personal interactive whiteboard! ShowMe allows you to record voice-over whiteboard tutorials and share them online. It's a radically intuitive app that anyone will find extremely easy to use, regardless of age or background. To see examples of smart, entertaining, fun, and inspirational ShowMe's that other people have made, check out ShowMe.com. (\$Free)

Doodlecast for Kids



The Doodlecast For Kids App comes with more than 20 drawing prompts – simple questions designed to give kids a starting point. Kids can choose from one of the prompts or start a drawing from scratch. The app records the entire

drawing process along with audio from the microphone to create videos up to three minutes long. The videos are as fun to watch as they are to create and Doodlecast makes it easy to share them with friends and families. (\$1.99/\$.99)

Doodlecast Pro



Doodlecast Pro is the easiest way to create presentations on your iPad. The app records your voice as you draw to create quick presentations. Doodlecast Pro saves videos to the camera roll making it easy to import them into popular video editors or presentation tools such as iMovie, Keynote, or iBooks Author. Perfect for teachers, students, business people and anyone needing an elegant way to share ideas. (\$3.99/\$1.99)

Skitch for iPad



Express yourself with fewer words, emails and meetings...with Skitch for iPad! Use shapes, arrows, sketches and text annotation to get your point across fast. Mark up photos, screenshots, maps, and webpages then share them with anyone you like. (\$Free)

Mathematics

The good news is there are many Mathematics apps, the struggle is to discover which ones will work for you. The example below is a great app.

MathBot



Typeset your math equations with TeX and share them with the world. Use the special math keyboard to typeset your equations easily. Preview your equations. (\$Free)

The problem with this app is to get the full feature you need to purchase the In-App of \$4.99. This is not possible with the Volume Voucher Program. There is a work around though. Once you have created the formula take a screen shot then crop with a

Gallery 4.1 Math Categories under Education in the App Store

Numbers & Operations

	Bugs and Buttons Education Updated Jan 12, 2012 \$2.99 BUY		Eddy's Number Party Education Updated Jan 13, 2012 \$2.99 BUY
	Intro to Math, by Montessorium Education Updated Sep 30, 2011 \$4.99 BUY		Jungle Fractions (for Education) Education Updated Dec 06, 2011 \$2.99 BUY
	Math Dictionary for Kids Education Released Aug 07, 2011		Motion Math HD Education Updated Dec 20, 2011

Math apps are broken down into seven categories.



photo app. For a video demonstration, check out this YouTube video: <http://www.youtube.com/watch?v=Cpf7O1wLNKA> If possible download and check out the lite version first. If the app cost money, see if it is half price when buying quantities of 20 or more using the Apple Volume Voucher Program.

MathBoard

MathBoard is a fantastic math learning tool for your iPad. -- MathBoard is appropriate for all ages from



kindergarten (with simple addition and subtraction problems) to elementary school where learning multiplication and division can

be a challenge. You can control the range of numbers you want to work with, the amount of questions you want to answer and even assign a time limit per quiz. MathBoard will make learning math fun. (\$4.99/\$2.49)

Unlike the iPhone or iPod Touch, the iPad does not come with a standard calculator. Here are three free versions, the first being my favorite:

TouchCalc



TouchCalc is a comfortable calculator program and offers several different modes. The scientific mode offers all the usual functions and operations like the basic arithmetical operations, power, logarithm, roots, trigonometry etc. The bit/integer mode offers logical operations (AND, OR, XOR, >>, etc.) on bit level. All values can be displayed as binary, octal, decimal or hexadecimal numbers. Calculations can be done in 8, 16 32 or 64 bits. In the statistics mode you can create a sample by adding several values and then calculate mean, median, quantil values, variance, standard deviation, range etc. Colorized keys will help to distinguish between the different categories of the functions and operations.

Jumbo Calculator

Jumbo Calculator is great for anyone wanting the ease of use of a large buttoned calculator. While sadly you can't feel the exquisite texture of its large plastic buttons, and the included solar panel



doesn't actually charge, Jumbo Calculator succeeds at its main purpose: adding, subtracting, multiplying, dividing, squaring and square-rooting. One size fits all. (\$Free)

Calculator for iPad Free



Calculator for iPad Free combines the normal and scientific calculator for free!

FEATURES: * Advanced mathematical/scientific buttons in landscape view. * Basic calculation buttons in portrait view. * Calculate with degrees or radials. * Percent button will behave just like the original calculator. * Memory buttons will also behave just like the original calculator. * Button sound is mutable * Invisible backspace button by sliding/swiping the result screen with your finger. (\$Free)

Free Graphing Calculator



Simple to grasp and easy to use, but powerful features are available when you need them. Available functions include the following: the usual arithmetic functions and exponentiation, square root, cube root, nth root, natural log, log base 10, log of arbitrary base, absolute value, factorial, permutations (nPr), combinations (nCr), modulus, random integer, bell curve, cumulative normal distribution, decimal to fraction.

Math Bingo



The object of Math Bingo is to get a pattern of five Bingo Bugs in a row by correctly answering math problems. There are five different games in Math Bingo: Addition, Subtraction, Multiplication, Division and Mixed. (\$.99/\$.49)

Wolfram Algebra Course Assistant



Taking algebra? Then you need the Wolfram Algebra Course Assistant. This definitive app for algebra--from the world leader in math software--will help you quickly solve your homework problems, ace your tests, and learn algebra concepts so you're prepared for your next courses. Forget canned examples! The Wolfram Algebra Course Assistant solves your specific algebra problems on the fly, often showing you how to work through the problem step by step. (\$1.99/\$.99)

Wolfram Alpha LLC makes quite a few apps for math including Pre-Algebra, Statistics and Calculus.

Fractions App



The Fractions App provides an ideal visual practice environment for you to master fractions concepts. We use a simple tactile interface where you can tap the screen to create a fraction from an everyday

objects like a pizza or a chocolate bar. The difficulty level of the game increases as you master the simpler fractions and then more questions in an increasing level of difficulty are offered. (\$.99/.49)

Super 7



Draw lines to combine the numbered discs and try to create 7s. Sure, it sounds simple but can you keep up once negative numbers and multipliers are thrown into the mix? (\$.99)

Counting Caterpillar



A counting app for preschoolers and kindergarteners. Counting Caterpillar teaches the basics of counting with fun game play, beautiful graphics and quality sound effects. This caterpillar is hungry! Catch aphids in the correct number sequence to feed the caterpillar and fill its belly. Earn butterflies while progressing through multiple levels, and visit them in the butterfly gallery. Curriculum based counting practice covers counting in ones to 100, and skip counting in intervals of 2, 5, and 10. The hard level offers a review of these counting techniques in a random selection to challenge comprehension and memory skills. (\$1.99/\$.99)

Ruler



Measure things with your new iPad, in centimeters or inches! Use your finger to drag the marker across the screen. Actual dimensions will be instantly displayed. Tap the screen twice to save the size, and to view it again later. The ruler will work in both portrait and landscape. For added style, select from four shiny themes: Blue Dream, Wood, Paper, or Strawberry. (\$.99/\$.49)

Flashcards



Flashcards is a free, easy-to-use studying application with material for any class or standardized test. You can also create and share your own. It is the best way to study on any iOS device. Other flashcard apps can't handle large decks, deck sharing, images, intuitive gestures, or even manage to show nice looking cards. Flashcardlet feels like a real deck of flashcards and does not get in your way. Collaboratively creating and sharing study material does not get easier than Flashcards. You can email your flashcard decks or share them using Dropbox. Flashcards allows you to search for, study, and make local edits to Quizlet.com flashcards. Any subject you can think of already has a Quizlet flashcard set that is perfect for studying. (\$Free)

Math Ref



Math Ref is a math reference application that includes over 1,400 helpful formulas, figures, tips and examples of the equations, and concepts. (\$.99/\$.49)

iCrosss



iCrosss is a unique educational application which will help you learn solid geometry in an easy and funny way. It allows you to build a cross-section of each available polyhedra by your defined plane. The plane can be defined by three points (taps) on polyhedron faces. The application supports such kinds of polyhedra as regular polyhedra (Platonic solids), Pyramids, Prisms, Anti-prisms and Archimedean solids and duals. Polyhedrons are displayed in 3D representation, which allows you to rotate it in any direction. Cool chalkboard drawing style and fonts were used for awesome look'n'feel. To build a cross-section you have to put three points on polyhedron faces in order to define a section plane. (\$.99/\$.49)

Section 6

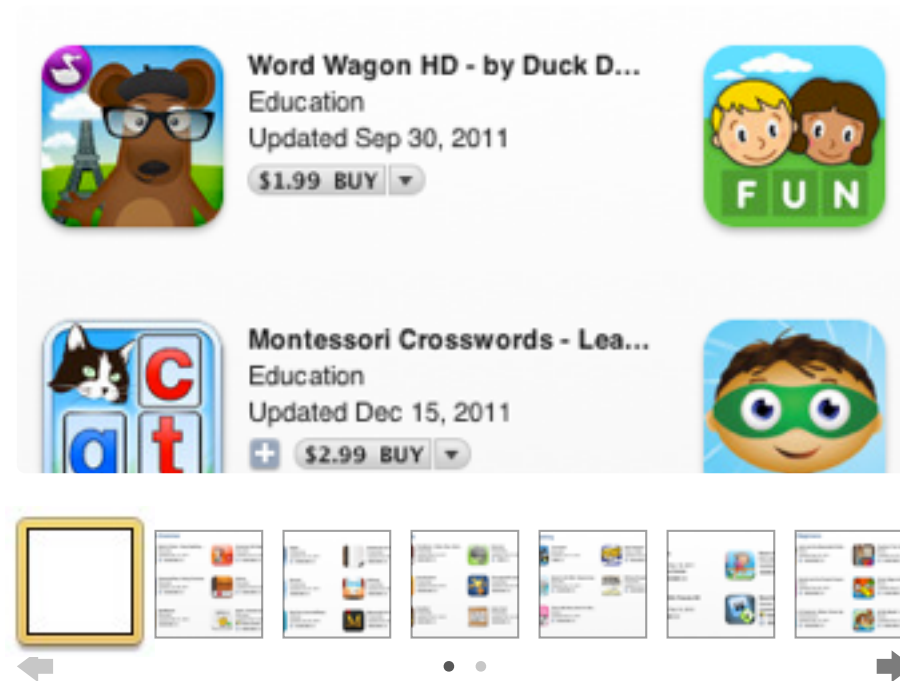
Language Arts

Take a look at Gallery 4.2, Language Arts Sections in the App Store. Notice the multitude of categories? Language Arts is a broad area that is found all over the App Store. This section focuses on specific apps supporting the classroom learning environment. Like the other sections, the description of each app is directly from the App Store and the prices reflect the regular price and a second price if the app is available in the Volume Voucher Program when you buy 20 or more copies.

ABC - Magnetic Alphabet HD

Take always with you this iPad edition of the old fashioned magnetic board suitable for kids of all ages! It's an infinite

Gallery 4.2 Language Arts Sections in the App Store



source of fun and a great way to stimulate their imagination and creativity. It comes

with a rich set of colored pieces that can be placed freely on the board: letters, numbers, symbols and funny figures (and we're already working on new pieces!) (\$1.99/\$.49)

Interactive Alphabet - ABC Flash Cards



Every letter is a unique, interactive toy! Play the make the 'D'inosaur is a hands-on,

xylophone on the 'X' card, roar, 'Z'ip the Zipper, etc! It memorable learning experience for babies, toddlers, and preschoolers! (\$2.99/\$1.49)

Storykit



Create an electronic storybook. Make use of the little gaps in life - on the sofa after dinner, in the back seat of the car, or on a train - to do something creative together. (\$Free)

Miss Spell's Class



Miss Spell's Class is an original word game that lets players test their spelling skills against the most commonly misspelled words on Dictionary.com. Players must quickly decide whether each of 20 words is spelled correctly or incorrectly, as speed and accuracy count to get to the top of the class! (\$Free)

Bluster!



This word matching game develops vocabulary and word understanding for school-aged children, or anyone brave enough to battle the elements. Bluster includes over 800 vocabulary words. Players choose a skill to practice and then try to make matches of three. Ten matches wins a round. (\$Free)

DollPlay-Frog Prince



Doll-play is an animation which produced world children 's classic story into puppet show. It guides adults into memory calling out nostalgia in childhood, and helps children purifying emotion in the world of pure innocence. (\$1.99/\$.99)

Starfall ABCs



The "ABCs" section of Starfall.com's well-loved website is now available as a universal application for your iPhone, iPad, and iPod Touch. Our activities motivate through positive reinforcement and play. (Note: App contains the ABC letter section only, NOT the whole website)

The Cat in the Hat - Dr. Seuss



New features only available in this book include professional narration, background audio and enlarged artwork for each scene. To promote reading in young children, individual words are highlighted as the story is read and words zoom up when pictures are touched. By combining the original text and artwork of Dr. Seuss with features that entertain and promote reading, this book appeals to readers of all ages. (\$1.99)

Aesop's Wheel of Fables



GIFT your child with life's most important and ageless morals, through short stories and fun games with Aesop's animal characters! Stories include "The Boy Who Cried Wolf", "The Hare and the Tortoise", "Town Mouse & Country Mouse" etc. (\$Free)

Grimm's Rapunzel ~ 3D Interactive Pop-up Book



Ideal Binary has taken the Grimm Brothers classic and updated it with modern language, a host of dazzling, fully interactive pop-up scenes, wonderful music, narration and humorous sound effects. (\$3.99/\$1.99)

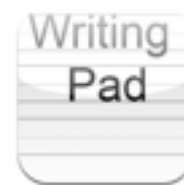
adidas outdoor magazine



All in is the name of the game and the interactive adidas outdoor magazine really does go all in. All in climbing, hiking, slacklining, bouldering, mountaineering, kayaking and enjoying an active outdoor lifestyle. All in the latest news, all in depth investigated stories, combined with breathtaking and inspiring photography. All in the necessary products, tools and information to live your personal day-to-day adventure. All in inspiration, emotion and passion. All in interactivity, with a lot of bonus

features, videos, 360 degree views and sound effects. Go all in, go outdoors! (\$Free)

Kids Writing Pad



Kids Writing Pad is a basic large lined writing pad useful for practicing numbers and letters to make sure you draw them appropriately. It has a middle dotted line between two solid lines like most primary school paper so you can practice having the appropriate parts of the letters or numbers in the right areas. You can choose the color of your pencil or use an eraser, or touch the big eraser to erase the entire page. (\$.99/\$.49)

Puppet Pals HD



Create your own unique shows with animation and audio in real time! Simply pick out your actors and backdrops, drag them on to the stage, and tap record. Your movements and audio will be recorded in real time for playback later. This app is as fun as your own creativity. Act out a story of Pirates on the high seas, fight as scary monsters, or play the part of a Wild West bandit on the loose. You can even combine any characters however you want! (\$Free) This is a free app that has in-app purchases but the free version is a must have! If you want a little more try **Puppet Pals Director's Pass** (\$2.99/\$1.49)



Free Audiobooks - 4,728 classic audiobooks for less than a cup of coffee.



Browse our handpicked collections, download any one of 4,728 classic audiobooks, and listen with our fully featured audiobook player. On the go? We save your place automatically. We've crafted handpicked collections to make browsing a snap, and commissioned hundreds of custom covers to bring you Cover Mode. This is the world of public domain audiobooks like never before. (\$1.99/\$.99)

Shakespeare



Shakespeare™ is a free app with the complete works of Shakespeare (41 plays, 154 sonnets and 6 poems, including doubtful works) and a searchable concordance to find the exact word or phrase you're looking for (with "relaxed" searching to find words close to your search term). (\$Free)

ConversationBuilder™



ConversationBuilder™ (Pat. Pend.) is designed to help elementary aged children learn how to have multi-exchange conversations with their peers in a variety of social settings. The auditory pattern of conversation is presented in a visual format to help

students recognize and master the flow of conversation. Students will learn when it is appropriate to introduce themselves, ask questions, make observations and change the subject of the conversation. (\$9.99)

Scribblenauts Remix



THINK IT! CREATE IT! SOLVE IT! The award-winning, best-selling video game is now available for the iPhone, iPod touch and iPad! Help Maxwell acquire the Starite by creating any object, bringing it to life and using it to solve each challenge. Let your imagination run wild in this groundbreaking puzzle game. Summon to life a 'colossal, winged car' or a 'shy, frost-breathing, robotic hippopotamus'! If you can think it, you can create it. (\$.99)

abc PocketPhonics: letter sounds & writing + first words



Aimed at kids aged between 3 and 6, and using the best 'phonics' teaching techniques, PocketPhonics introduces kids to each of the key letter sounds. As they learn the sounds, the app guides them how to write each letter through its unique follow-me arrow making it easy to learn how to correctly form letters. (\$2.99)

Section 7

Reference

The Reference section of the App Store, with over 7,000 apps listed, lists apps that reference proper grammar, thesaurus, dictionaries, how-to manuals for online multi-user games such as Minecraft, reference Bibles, movie companions, a science formula calculator for physics, car user guides, care of plants, trees and roses, astronomy, language translators, city and country guides, conference guides, tips for iPad and OS X Lion, law code guides, the list goes on and on.

Dictionary Apps



There are several dictionaries inside the reference section ranging from free to \$30. Depending on what your needs are, the free versions of

[Dictionary.com](#) or [Merriam-Webster](#)

[Dictionary](#) usually do a great job. If you need an ad free app, try the paid version of

[Merriam-Webster Dictionary HD](#) at \$3.99. Both dictionaries offer voice search but Dictionary.com offers a limited amount then charges \$0.99 for 300 voice searches. Merriam-Webster, powered by Dragon of Dragon Dictation, does not charge. Both offer synonyms,



A screenshot of the App Store's 'TOP CHARTS' section for Reference apps. The chart is divided into two columns: 'Paid Apps' and 'Free Apps'. Each column has a 'See All >' link. The 'Paid Apps' list includes: 1. Dictionary.com HD - Ad Free Dic... Reference, 2. The Night Sky Reference, 3. WolframAlpha Reference, 4. Wikibot — A Wikipedia Articles ... Reference, 5. World Atlas HD Reference, 6. Merriam-Webster Dictionary HD - ... Reference, 7. Our Daily Bread Reference, 8. Photo Collage HD – the Amazin... Reference, 9. The Guide - Skyrim Edition Reference, 10. Plants vs.Zombies Walkthrough ... Reference. The 'Free Apps' list includes: 1. Google Search Reference, 2. Dictionary.com - Dictionary & Th... Reference, 3. Bible Reference, 4. Google Translate Reference, 5. Merriam-Webster Dictionary HD Reference, 6. Ancestry Reference, 7. Dictionary. Reference, 8. Wikipanion for iPad Reference, 9. iTranslate ~ free translator Reference, 10. Bing for iPad Reference.

antonyms and audio of the word.

In-Browser Dictionary



Apple's **Safari** browser has an a built in dictionary that works in the same way as iBooks. Hold down on the word you wish to define and a small menu will appear asking if you wish to copy or define. Tap on define and a window will appear with definitions. **Tap-Dictionary** by Ronen Drihem, \$9.99, works similar to Safari as an add-on to Safari. On the page you wish to work with in Safari, tap on the bookmark of Tap-Dictionary then the word you wish to define. Tap-Dictionary will open up and include an audio component. In addition, if you purchase **Tap-Translate**, the translate button will translate over 20 languages.



Encyclopedia Apps

The obvious choice for an encyclopedia would be *Britannica*. Vetted thoroughly, it is one of the most reliable sources of information. But, yes there is a but, they don't offer a premium or pro app. Its a free app with a required \$1.99 per month subscription. Unfortunately, the Apple Volume Voucher Program for education purchases of Apps and eBooks does not allow for In-App purchases. Therefore, **Encyclopaedia Britannica** is not a classroom option.



Requires a \$1.99 subscription

The good news for Britannica fans is they offer several apps on specific subjects: **Solar System, Volcanoes, Rainforests, Egypt, Ancient Rome, Knights & Castles, Snakes, U.S. Presidents, Aztec Empire** and **Dinosaurs**. Each app sells for \$4.99 with no In-App purchases.

Next I turned to World Book Encyclopedia. There is little presence of the company in the App Store. They have two limited apps currently: **World Book Surf the Ages**, \$4.99 and **World Book- This Day in History for iPad**, \$Free. This Day in History is is worth downloading.

The final and most popular choice is Wikipedia. The information for all the apps is pulled from Wikipedia online.



Wikipedia Mobile by the Wikimedia Foundation, \$Free is available on all Apple mobile devices. The other popular app to access Wikipedia is the **Wikipanion for iPad**, \$Free and the paid version **Wikipanion Plus for iPad**, \$4.99 by Robert Chin. Wikipanion and Wikipedia Mobile are both solid apps. Download both and see which one works best for you.



Information Apps

Information Apps access specific or information in a unique way. here are a few examples:



eHow by Demand Media, Inc., \$Free, is a library of articles pulling its content from the website of the same name. Article subjects include home, money, family, food, health and style. It offers the level of text difficulty. Since it is rated 12+ you might want to use this app in conjunction with Instapaper to download articles ahead of time that will be of interest to your students. If you use restrictions and set the app restrictions below 12+ this app will not install.



Qwiki by Qwiki, \$Free, interacts with information in a totally different way. Map based information with photos and read aloud text gives the user a visual and auditory experience on the things around them or an area of interest. I highly recommend this app but like all information apps, you should preview ahead of time. Check out their video at <http://www.vimeo.com/qwiki/ipad>

National Geographic Society has several non-fiction apps. **World Atlas HD**, \$1.99, brings high-res maps together with facts and flags of countries around the world. Maps on the iPad and Google Earth are usually primary sources at no charge but lack the country info. If the need for information combined with maps is needed in your classroom, World Atlas HD is a good choice. (\$1.99)



Translator



As most of us know computer accuracy in translation is not a simple one. The only one I can put down as an up-and-coming translation app is **Google Translate** by Google Inc, \$Free. Google has had several years of experience in translating of 60 languages through their web browser so it would seem natural for them to create an app. (\$Free)

Flashcards



Flashcard is a free, easy-to-use studying application with material for any class or standardized test. You can also create and share your own. It is the best way to study on any iOS device. Other flashcard apps can't handle large decks, deck sharing, images, intuitive gestures, or even manage to show nice looking cards. Flashcards feels like a real deck of flashcards and does not get in your way. Collaboratively creating and sharing study material does not get easier than Flashcards. You can email your flashcard decks or share them using Dropbox. Flashcards allows you to search for, study, and make local edits to Quizlet.com flashcards. Any subject you can think of already has a Quizlet flashcard set that is perfect for studying. (\$Free)

Section 8

Social Science

Britannica Kids: US Presidents



Bring the Oval Office into your living room with detailed profiles for every president. Tap into a wealth of interesting presidential facts, and solidify your knowledge through quizzes and voiced over text. (\$1.99/\$.99)

Boston



Set of 9 unbelievable Boston historic panoramic views. Check how city looked like before. Everything in extreme resolution up to 500megapixels. Perfect XIX century drawings on iPad with 2500% zoom - let you study all details created by lithographers. (\$.99)

Qwiki

Curious? Explore 3,000,000 topics in a format perfect for the iPad: learn about what's near you, across the world - and



everything in between. Labeled "a seed that will blossom into an Internet wonder" by the NY Times, Qwiki combines thousands of sources to present concise, interactive summaries of millions of people, places and things in an experience optimized for the iPad. Explore topics by searching or browse a worldwide map highlighting landmarks, monuments, cities, towns, and more. (\$Free)

Kids Maps - Map Puzzle Game



The goal of Kids Maps is to help young children (ages 2+) learn geography through a fun, interactive, map puzzle game which uses colorful artwork, voice, sound & animation to teach. (\$2.99/\$1.49)

American Dreams - Speeches and Documents in US History



FEATURING 480 DOCUMENTS, INCLUDING: 90 Supreme Court Decisions, all the US Presidential Inaugural Addresses, the Constitution and dozens of key laws, first-hand accounts and speeches

(with 18 Audio Recordings) make this an incredible compilation of primary source documents in American History. (\$1.99/\$.99)

Cosmic Discoveries



Take a ride with the Museum's astrophysicists through our Solar System, the Milky Way Galaxy, and beyond. Cosmic Discoveries is the first app to collect over 1000 stunning astronomic images and was launched as part of a year-long series of events to help commemorate the tenth anniversary of the opening of the Museum's Rose Center for Earth and Space, a New York City icon and one of the world's most revered science and educational institutions. (\$Free)

Castles



Castles displays a slideshow of amazing castles from around the world and by leading photographers -- you've NEVER seen a collection like this! Some of the renowned photographers include Pedro Dias and Ville Miettinen. (\$2.99)

Google Earth



Hold the world in the palm of your hand. With Google Earth for iPhone, iPad, and iPod touch, you can fly to far corners of the planet with just the swipe of a finger. Explore the same global

satellite and aerial imagery available in the desktop version of Google Earth, including high-resolution imagery for over half of the world's population and a third of the world's land mass. (\$Free)

Discovery News



Do you want to be up-to-date on the latest scientific breakthroughs and cutting-edge technologies? Do you want to understand the science behind the stories everyone is talking about? If you are naturally curious and seek out knowledge, then Discovery News is the app for you. (\$Free)

Strange Unsolved Mysteries



This App Explores The Questions That Has Puzzled Humankind For Ages And Offers Some Interesting Possibilities That Just Make You Say, "That Can't Be Possible!!" But it is! (\$.99/\$.49)

US Presidents (Match'Em Up History and Geography)



In US Presidents you get to learn the names, chronological order and to recognize photos of the US Presidents in this memory matching game with a twist. Each game consists of 4 rounds. In round 1 you match the president portraits and learn their names, order and years served. In round 2 you match

the portraits to the names of the presidents. In round 3 you match the portraits to the chronological order in which they served. The final round is all words as you match the names of the presidents to the order. (\$.99/\$.49)

World History - Oxford Dictionary



An incredibly useful reference, the Oxford Dictionary of World History has been fully revised and updated in order to bring it into the 21st century. It contains over 4,000 clear and concise entries on all aspects of history, from prehistory right up to the present day. Biographies of key figures in world history range from Alexander the Great to Bill Clinton, Elizabeth I to Nelson Mandela. There are separate entries for every country in the world summarizing the key historical events and important figures in that nation's history. (\$14.99/\$7.49)

WWII Posters - iPad edition



WWII Posters is an aggregation of the stunning war time posters produced by the US Government during World War II. 275 posters are included and give you a unique peek into the American mindset of 1942. (\$1.99/\$.99)

Greek Mythological



Do you enjoy Greek mythology? You will love this app. It is a one stop shop for basic data and images as well as a springboard to continuing your research. Better yet, your experience is not limited to what we provide, as the application ties directly into web services to provide additional images and other resources so you can continue to explore and learn. Search for keywords, bookmark your favorites, browse images, and have a ton of fun. You might even learn something! (\$.99/\$.49)

History Classics



Classic Book's based around event's in History or taking place in a historical setting. (\$3.99)

MyCongress



MyCongress is a portal to detailed information about your elected U.S. Congressional officials. Track their news, video and Twitter feeds. Look up their official Open Congress profile or contact them directly. MyCongress helps you get in touch with your government. (\$Free)

Section 9

Science

There are a ton of science apps in the App Store. There seems to be quite a few free apps in this section. In addition, there are several science apps in the reference section. The prices under each app are for individual purchase/purchase of 20+ apps using the Apple Volume Voucher Program for education. All descriptions are taken from the Apple App Store.

Science 360

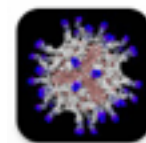


The National Science Foundation's (NSF) Science360 for iPad provides

easy access to engaging science and engineering images and video from around the

Gallery 4.3 Science Categories in the App Store

General Biology [See All >](#)



Mighty Microbes
Education
Updated Jan 17, 2012
\$2.99 BUY



Rat Dissection
Education
Updated Dec 09, 2011
\$3.99 BUY



Cell and Cell Structure
Education
Updated Nov 11, 2011
\$2.99 BUY



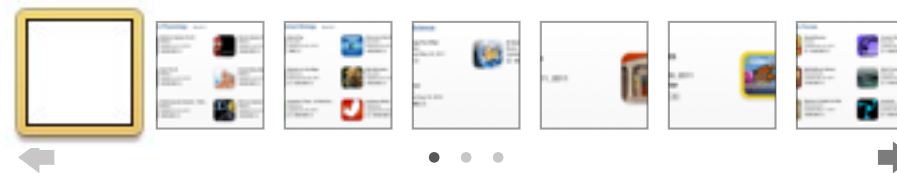
Science360 for iPad
Education
Updated Oct 17, 2011
FREE



AP Biology 5 Steps to a 5
Education
Updated Aug 03, 2011
\$9.99 BUY



Powers of Minus Ten - Cell
Education
Updated Jul 14, 2011
\$1.99 BUY



globe and a news feed featuring breaking news from NSF-funded institutions. Content is either produced by NSF or gathered from scientists, colleges and universities, and NSF science and engineering centers. (\$Free)

NASA App HD



The NASA App collects, customizes and delivers an extensive selection of dynamically updated

information, images and videos from various online NASA sources in a convenient mobile package. Come explore with us. NASA App is for iPhone/iPod Touch, NASA App HD is for iPad. Both are \$Free.

Britannica Kids: Solar System



This latest addition to the Britannica Kids series is the perfect app for exploring the secrets of the Solar System in a fun and engaging way. Learn and play at the same time through a variety of games like Memory Match, Jigsaw Puzzles, and the Magic Square among others. Explore the solar system through a wealth of amazing images (which you can e-mail to friends!) videos and informative articles. (\$4.99/\$2.49)

Star Walk for iPad - interactive astronomy guide



Do you like stars? Star Walk is a stellar augmented reality app that labels all the stars, constellations, and satellites you point your iPad at. You can track the ISS, find out what constellation you've been looking at from your bedroom window and get a lot of exciting and educative information. (\$4.99/\$2.49)

Molecules



Molecules is an application for viewing three-dimensional renderings of molecules and manipulating them using your fingers. You can rotate the molecules by moving your finger across the display, zoom in or out by using two-finger pinch gestures, or pan the molecule by moving two fingers across the screen at once.

These structures can be viewed in both ball-and-stick and space-filling visualization modes. (\$Free)

Science House



A growing library of over 80 hands-on Science lessons that are great for home and the classroom. These short videos demonstrate inexpensive and easy to recreate experiments that are designed to inspire and excite kids of all ages. (\$Free)

Astronomy Jigsaw Puzzles- HD for iPad



Play a huge collection of astronomy themed jigsaw puzzles with this app! Turn any of your own pictures into a jigsaw puzzle, or use one of the 100 pictures that we've included in the app! (\$1.99)

Elements: A Visual Exploration



If you think you've seen the periodic table, think again. The Elements: A Visual Exploration lets you experience the beauty and fascination of the building blocks of our universe in a way you've never seen before. The Elements is much more than a technology showcase. It's based on the best-selling hard cover edition of The Elements by Theodore Gray, Popular Science Magazine's Gray Matter columnist. You may start off looking at the pretty

pictures, but once you start reading the book, you'll be hooked on the fun stories and fascinating facts. (\$13.99/\$6.99)

Science Glossary



A glossary of scientific terms and short biographies that support our science education website, <http://www.visionlearning.com>. All definitions link to related terms and to free, detailed science learning modules. Though geared for high school and undergraduate students using our website, the glossary and modules are appropriate for anyone generally interested in science. (\$Free)

Mitosis



How do cells divide to grow new hair, repair your skin, or strengthen your bones? Mitosis walks you through the process of cell division, and explains everything that happens along the way. You'll usher cells through mitosis with your fingers, learning about what happens in each phase of the process. You can also look at images of actual cells dividing under a microscope and see the actual structures you've studied. (\$Free)

PLoS Reader



Read the most recent articles from the seven journals published by the Public Library of Science. PLoS Reader is designed just for the iPad and

features a full-screen, page-turning interface. (\$Free)

WolframAlpha



Wolfram|Alpha has rapidly become the world's definitive source for instant expert knowledge and computation. Across thousands of domains--with more continually added--Wolfram|Alpha uses its vast collection of algorithms and data to compute answers and generate reports for you. Covers most areas of Science. (\$2.99/\$1.49) Search the keyword Wolfram for many more apps on Science.

3D Brain



Use your touch screen to rotate and zoom around 29 interactive structures. Discover how each brain region functions, what happens when it is injured, and how it is involved in mental illness. Each detailed structure comes with information on functions, disorders, brain damage, case studies, and links to modern research.

Sid's Science Fair

Sid's Science Fair engages players (ages 3 to 6) in experiential learning with core science and math concepts from classification and identifying patterns to charting and sequencing. (\$2.99/\$1.49)



Section 10

Music

Welcome to the Music section. Like the other subjects, the different apps out there will seem unending. Lots of virtual instruments, kids music apps, sheet music, etc. If possible download and check out the lite version first. If the app cost money, see if it is half price when buying quantities of 20 or more using the Apple Volume Voucher Program. The second price reflects the Apple Voucher price.

Bebot



Featuring four different synthesis modes, juicy analog-sounding filters, effects and overdrive distortion, Bebot is a feature-packed polyphonic synthesizer, offering a wide range of sounds and a high degree of control via the multitouch screen.

(\$1.99/\$.99)

Garageband



GarageBand turns your iPad, iPhone and iPod touch into a collection of Touch Instruments and a full-featured recording studio — so you can make music anywhere you go. Use Multi-Touch

gestures to play pianos, organs, guitars, drums, and basses. They sound and play like their counterparts, but let you do things you could never do on a real instrument. Enjoy a full range of Smart Instruments that make you sound like a pro — even if you've never played a note before. Plug an electric guitar into your iPad, iPhone or iPod touch and play through classic amps and stompbox effects. Use the built-in microphone or a guitar to record, or capture any performance. Then mix up to eight tracks to create a song you can share. (\$4.99/\$2.49)

Seline Ultimate - Unique Ergonomic Musical Instrument with MIDI



Seline is a great live performance and improvisation music instrument that will keep you playing for hours, even if you haven't touched any music instrument before. The sound is altered on the fly with a dozen of subtle AI algorithms that add unbelievable expression, character and life to your music. Drones (chorded synth pads) are generated on-the-fly based on the complex analysis of your melody line and provide an excellent background layer for your melody. (\$6.99/\$3.49)

Sound Cells



Sound Cells is an interactive generative music app. Just touch the matrix to create some moving cells and see them interact with each other and generate sound in realtime. If a cell hits the wall, it creates a sound. If a cell ends up in the same location as another one, they change directions. You can remove cells by touching them or by hitting the cell removing button. (\$.99)

Virtuoso Piano Classic



Be the maestro with Virtuoso Piano Classic, the classical iPod touch and iPhone instrument. Play breathtaking nocturnes in soft mode. Or ground shaking legatos with up to five fingers. Change the tuning with one flick of your fingers. Adjust the reverb mix to change the acoustical environment. Slide your fingers to roll the keys. And when you have the perfect tune, record it. Everything that made the grand piano the majesty of instruments now fits in your pocket. (\$.99/\$.49)

Old MacDonald HD - by Duck Duck Moose



Old MacDonald is a musical book with 12 colorful pages of fully interactive, original illustrations. Delight your children while encouraging cognitive,

language, and motor development. (\$.99/\$.49)

Phonics Songs for iPad



The most fun and effective way to learn the English alphabet and basic English words! Children learn a language by themselves listening to stories and singing songs. It's important for the children who are the first time English learners to have enough listening practice before they get started reading and writing. Phonics English Children's Songs enables children to learn. English alphabet and basic English words effectively with fun just through listening to lively English songs over and over singing along. (\$2.99)

MadPad HD- Remix Your Life



Remix your life with MadPad! Turn everyday sights and sounds like your car, an empty soda can, or your friends into the ultimate percussive instrument. Who would have thought everyday life could be so musical? MadPad now features hip-hop duo Chiddy Bang's sets! (\$2.99/\$.49)

Djay



djay transforms your iPad into a full-fledged DJ system and seamlessly integrates with your iPod library, giving you direct access to all your favorite

tracks and playlists. A hyper-realistic touchscreen interface and ultra low-latency converge to offer you a true professional mixing experience, all with your own music. You can perform live, record mixes on-the-go, or enable Automix mode and let dJAY mix your favorite playlist from your iPod library auto-magically! (\$19.99/\$9.99)

Andrew Zuckerman: Music



The Andrew Zuckerman: Music iPad app features dynamic portraits of over fifty musicians, from across genres, who provide their perspectives on one of the most universal and yet unexplainable art forms. It includes portraits and a short film for each contributor, as well as interviews and behind-the-scenes photography. Live text from the interviews can be organized by theme and is sharable. Musician pages link directly to the artist's page in iTunes, so you can learn about musicians and then go straight to their music. (\$9.99)

TonePad Pro



TonePad Pro is the easiest and coolest way to make music. Discover the inner musician in you. Create songs by simply touching the screen and seeing notes light up. Share your unique creations with friends. The Pro version is all the goodness of TonePad with the added ability to create custom

ringtones. Email the ringtone to yourself or a friend. Add the attached ringtone file into your iTunes library on your computer and sync with your iPhone. The ringtone will then be selectable on the iPhone via Settings > Sounds > Ringtone. You can also import your saved songs from TonePad 1.11. (\$.99/\$.49)

Discover



With more than 15 million songs and 3 million artists in the world of music how do you find the music you like? We built Discover Music to make it easy to find and explore new music. Enter an artist you like and you'll discover artists you love. The app uses data visualization and music recommendations to provide an interactive map of the entire world of music. You can navigate through the musical ecosystem and discover new music based on what you like. The app is built from the ground up to make the most of iOS5 and is also backward compatible to previous iOS versions. (\$.99)

Ear Trainer



Ear Trainer is an educational tool designed for musicians, music students and anyone interested in improving ones musical ear. It is filled with over 160 individual exercises covering intervals, chords, scales and relative pitch. (\$6.99)

KORG iELECTRIBE



Korg's ELECTRIBE·R has been coveted by dance musicians for ten years running. Today, this indispensable instrument has been reborn as a dedicated iPad app – the KORG iELECTRIBE virtual analog beatbox! With the iELECTRIBE, sound creation is easy, fun and intuitive – just as on a vintage analog synthesizer. Simply choose a part (or sound) and touch the 16-step sequencer to quickly build a groove. (\$19.99)

Free Apps with In-app Purchases

Listed below are some free apps that have in-app purchases. Although I generally shy away from these types of apps due to advertising or the frustration of not being able to do much with them without the purchase of add-on packs, there are those apps that warrant a look at the free version. So give these a try.

DJ Mixer Pro



(\$Free)

DJ Mixer Pro is the only iPhone DJ mixer that allows you to beat match your tracks without affecting the playback pitch and to quickly skip around your tracks to find a good spot to mix using a unique visual music display and an auto BPM detection.

Sounddrop



Draw lines and watch as Sounddrop uses them to create music! Listen with headphones for the full effect. (\$Free)

Alchemy Synth Mobile



Turn your iPhone/iPad into a powerful synthesizer! Alchemy Mobile includes everything from evolving soundscapes and fat bases to lush pads and pulsing arpeggios. This is the iOS version of Camel Audio's award-winning Alchemy synth - the leading sample manipulation synthesizer which can be heard on thousands of records and films by world-class artists. (\$Free)

Miso Music: Plectrum



Want to learn how to play the guitar? Miso Music: Plectrum is a new way to learn to play the guitar, 'ukulele, bass, banjo and mandolin. Our patent-pending note recognition software listens for the correct note or chord, making the learning experience easier and more engaging. Don't own an instrument? Miso Music: Plectrum comes with a suite of virtual instruments powered by Fender, Deering Banjo, and Ko'Aloha Ukulele. (\$Free)

Conclusion?

Conclusion?

Conclusion?

There is no conclusion to this story. As the iPad evolves, so will the apps, the books, the music, the videos, and this book. It truly is a never ending story.

The iPad, the iPhone, the iPod Touch are conduits to a world of information. I see it happen every day with my own children. When we sit down to complete their homework my daughter will ask me to answer a math calculation. I remind her she has an iPhone if the problem is stumping her. She asked where a state is located? My answer, look at a map on your iPhone. Then she started to ask another question and her brother turned to her and said “Use your iPhone!” Yes, I do answer questions besides saying use your iPhone, but to be a successful student in today’s classroom its not just about what you know its also the knowledge of how to find the answer.

The Common Core Standards address the need to research information. “Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information int the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.” Common Core Standards, 9.W.8 This is a theme throughout every grade level.

I know you have heard this before: The more students handle mobile devices and use them effectively to support their learning, the better prepared they will be to enter a demanding and

constantly changing workforce. Now let me twist this around and focus on the teacher. The further behind an educator gets in technology, the bigger the disconnect between the teacher and the students.

Districts are moving forward in technology with response units, interactive whiteboards, 1-on-1 laptops and netbooks, iPads and tablets, iPod Touches, even cell phones. There are data centers and online attendance, electronic gradebooks and grading systems. Technology is integrated into state and Common Core standards, and the list goes on.

If an educator does not push forward in their education in the use of technology, they will eventually be unable to cross the digital divide. It’s not necessary to be cutting edge, but they do need to know the basics of technology and how to implement the devices effectively in their teaching.

App

App is short for application and generally associated with use on mobile devices.

Related Glossary Terms

Drag related terms here

Index

Find Term

IOS

iPhone Operating System (IOS): The internal system that operates all Apple mobile devices.

Related Glossary Terms

Drag related terms here

Index

Find Term