iPads in Education

The Apple iPad is poised to transform learning as we know it. The iPad is an ideal product for education because it can support students in problem solving by facilitating easy access to the wide world of information, provides easy to use ways to collaborate with people near and far, and it provides easy to use tools for personal expression. Using iBooks, iTunes and the hundreds of thousands of resources available for the iPad, provides innovative and up-to-date resources for all our students. The potential for success is unlimited.

Reference Articles
The Journal: http://thejournal.com/articles/2010/01/27/measuring-the-ipads-potential-for-education.aspx

> "Textbooks, for example, may look and feel very different in a just a few years, thanks in part to the introduction of the iPad."We'll no longer be thinking in terms of static publications and will instead be using dynamic content with animation, movies, video, and other multimedia built into it," Purdy predicted. "We'll go from trying to feed PDF textbooks into portable devices to building interactive, dynamic applications that students can carry around with them."

> Comparing today's introduction of the iPad to the 2007 debut of the iPhone, which at the time was not associated with a burgeoning app store, Purdy said educators should view the new device as more than just a new piece of hardware. "This is really just the beginning," he said. "Just watch what creative developers are going to do with this platform. It should be pretty exciting."

Other Supporting articles:
http://www.freerepublic.com/focus/f-chat/2495380/posts
http://www.businessweek.com/technology/content/mar2010/tc20100323_888275.htm
http://www.ipadintheclassroom.com/

iPad Statistics
First 45 days of iPad sales: 47,000 sold into Education in the US.

CPS schools purchasing iPads:
- over 250 iPads ordered in 40 days
- over 155 iPads expected in July based on proposal requests
- iPads shipped to 35 different schools

Samples of Potential Educational Apps

With thousands of educational apps on the Apps Store, you can put endless possibilities at the fingertips of our students. Here is a look at just a handful of highly used educational apps.

Subject	Grade Level	App Name	Description
All (Word Processing)	K-12	Pages (iPad only)	You can use Apple-designed templates and Multi-Touch gestures to lay out letters, flyers, brochures, reports, and more. With Pages for iPad, it's never been easier to create great-looking documents, all with the touch of a finger. Students can create reports, papers and other word processing documents as needed Students can share their work by exporting it to Pages '09, Microsoft Word, or PDF and sending it via Mail. iTunes Store URL: http://itunes.apple.com/us/app/pages/id361309726?mt=8
All (Spreadsheet/ data collection)	K-12	Numbers (iPad only)	Numbers has everything you need to organize data, perform calculations, and manage lists. Use predefined styles for tables, charts, images, and text to customize the look of your spreadsheet. Intelligent keyboards make data entry easy — they're designed specifically for working with dates, formulas, text, or numbers. Perform simple or complex calculations with over 250 functions that let you create your own formulas using a dedicated function keyboard and built-in help. Forms make it easy to enter data in a table when you're on the go. And, in full-screen view, Numbers instantly summarizes selected data in different ways — by sum, average, min, max, and count. With a quick swipe, you can even see your data as a chart. Students can create spreadsheets directly on the device Students can also send their document to anyone via Mail, share it with iWork.com public beta, or export it and use iTunes File Sharing to move the file to their computer. iTunes Store URL: http://itunes.apple.com/us/app/numbers/id361304891?mt=8

Subject	Grade Level	App Name	Description
All	K-12	iBooks (iPad only)	iBooks includes the iBookstore, where you can download the latest best- selling books or your favorite classics. Browse your library on a bookshelf, tap a book to open it, flip through pages with a swipe or a tap, and bookmark your favorite passages. Access thousands of books including free eBooks from Project Gutenberg. Carry a library in your pocket. Change the font size and pick from five included type faces to make your books more comfortable to read. Find a word, character, or phrase anywhere in your book with the built-in search feature. Can import any book you have in ePub format. Perfect for readers at any age and level. iTunes Store URL: http://itunes.apple.com/us/app/ibooks/id364709193?mt=8
All (Presentation)	K-12	Keynote (iPad only)	Keynote is the most powerful presentation app ever designed for a mobile device. It's the application you know and love on the Mac, but completely reworked from the ground up for iPad. It makes creating a world-class presentation, complete with animated charts and transitions, as simple as touching and tapping. Students can easily create presentations to share with their teachers and classmates. Collaborate by sharing presentations via email or iWork.com. Share your work with the class on your iPad or using the adapter and a projector. iTunes Store URL: http://itunes.apple.com/us/app/keynote/id361285480?mt=8
All (Productivity)	K-12	Penultimate (iPad)	The ultimate note taking app for iPad. Stylish, powerful, and easy to use, Penultimate encourages you to take notes, keep sketches, or work through your next breakthrough idea-- whether you're in the office, on the go, or home on the couch. Students can have separate notebooks for each topic, project, or category Share notes -- send single pages or entire notebooks to classmates or friends; PDF format is supported for full notebooks. iTunes Store URL: http://itunes.apple.com/us/app/penultimate/id354098826?mt=8

Subject	Grade Level	App Name	Description
All	K-12	eClicker & eClicker Host (iPad and iPod)	eClicker and eClicker Host combine to make a personal response system that allows teachers to poll their class during a lesson. It provides real time feedback so that teachers can be sure their messages are being received. Developed for the hardware already in the pockets of many students eClicker provides a low cost alternative to the expensive infrared based systems on the market. iTunes Store URL: http://itunes.apple.com/us/app/eclicker/id329200145?mt=8
All	K-12	BrainPOP Featured Movie (iPad and iPod)	BrainPOP Featured Movie App for the iPad! After watching BrainPOP's animated movie, you can test your new knowledge with an interactive quiz. BrainPOP's award-winning educational resources are used by millions of students in thousands of schools across the U.S. and worldwide. Topics cover Science, Math, Social Studies, English, Technology, Arts & Music, and Health - everything from Carnivorous Plants to Abraham Lincoln! All movies are captioned, making it easy to read along. iTunes Store URL: http://itunes.apple.com/us/app/brainpop-featured-movie/id364894352?mt=8
All (Word Processing)	K-12	Sound Paper (iPad only)	SoundPaper is the best way to take notes in meetings, lectures, and interviews. It tracks what you type and draw while recording audio, so you'll never worry about missing an important detail. During playback, just tap a word: SoundPaper will jump right to that time in the audio. iTunes Store URL: http://itunes.apple.com/us/app/soundpaper/id364789577?mt=8

Subject	Grade Level	App Name	Description
All (Productivity)	K-12	Photogene (iPad only)	Photogene is easy to use application offers a comprehensive set of professional editing tools: Crop and straighten, Sharpen, Full set of color adjustments (including levels and curves), Correct underexposed photos and add a spark to washed-out ones, Red-eye correction, Apply one of our artistic filters such as sepia or edge blur, Add text boxes of different styles, colors and fonts, Add frames in various shapes and colors, including shadows and glows, Special effects such as reflection or vignette. iTunes Store URL: http://itunes.apple.com/us/app/photogene-for-ipad/id363448251?mt=8
Math	K-5	Flash Action Multiplication & Division (iPad only)	Children can practice problems against the clock, challenge another player to a game of fast facts, or test themselves for speed and accuracy. Children can set the program to practice multiplication, division, or mixed problems, and the level of difficulty will be adjusted based on their performance. If there is a fact a child just can't get, he or she can go to the handy, interactive chart to find the answer. Audio responses for correct and incorrect answers. Interactive multiplication and division chart. Multi-player gaming. Assorted playing modes, including testing mode. iTunes Store URL: http://itunes.apple.com/us/app/flash-action-multiplication/id364368447?mt=8

Subject	Grade Level	App Name	Description
Math	9-12	Math Graphing XL (iPad only)	Math Graphing XL is a powerful & unique 1D graphing calculator to graph mathematical expressions of arbitrary complexity. Math Graphing XL can help students improve their math skills by developing some visual intuition of mathematical expressions or advanced users who need some scientific capabilities until now only available with desktop software like Mathlab or Mathematica. Several formulas can be plotted simultaneously in different colors and styles. Interactive sliders can be created to visually investigate the role of important parameters on the graphical representation of the formulas. Trace mode to display coordinates and derivative of marker on selected curve. Customizable graph appearance: axes labels, title, curve color and style, ticks number, grid, etc. iTunes Store URL: http://itunes.apple.com/us/app/math-graphing-xl/id364516980?mt=8
Reference	K-12	Wolfram Alpha (iPad and iPod)	Get answers. Access expert knowledge. Wherever you are. Whenever you need it. Find out how much vitamin C is in a bowl of ice cream. Learn what European country has the fourth largest population of children. Compute solutions to difficult trig and calculus problems. Balance complex chemical equations. Discover what is overhead as you gaze up at the stars. Finally crack that crossword puzzle. Whoever you are and whatever you do, Wolfram|Alpha delivers insight and understanding into any facet of your life. Teachers can access lesson plans and other ideas for homework and assignments at http://homeworkday.wolframalpha.com/ Students can solve mathematical equations, or see the tide charts from D-Day. iTunes Store URL: http://itunes.apple.com/us/app/wolframalpha/id334989259?mt=8

Subject	Grade Level	App Name	Description
Special Needs	K-12	Proloquo2Go (iPad and iPod)	Proloquo2Go provides a full-featured augmentative and alternative communication solution for people who have difficulty speaking. It provides natural sounding text-to-speech voices, up-to-date symbols, powerful automatic conjugations, a default vocabulary of over 7,000 items, full expandability and extreme ease of use. SLPs, teachers and parents recommend it for children and adults with autism, cerebral palsy, down syndrome, developmental disabilities, apraxia, ALS, stroke or traumatic brain injury. Supports picture and/or text-based communication Automatic conjugation of verbs Automatic plurals and possessives for nouns Created for anyone needing an AAC solution. iTunes Store URL: http://itunes.apple.com/us/app/proloquo2go/id308368164?mt=8
Science	5-12	Starwalk (iPad and iPod)	Star Walk is your personal planetarium that can answer to all your curiosities about the sky! For anyone who is interested in stargazing, amateurs or professionals Star Walk makes discovering more than 9,000 stars, planets, constellations, messiers as beautiful and easy as it has never been before! Clock function allows you to watch what was happening on a specific date and time -- be a part of astronomical events like eclipses and meteor showers. Students can tilt the iPad and a live representation of what you see in the sky will appear. Access the moon phases for several days. Night vision mode cuts down on light pollution at night. Perfect for students of all ages that are interested in astronomy. iTunes Store URL: http://itunes.apple.com/us/app/star-walk-for-ipad-interactive/id363486802?mt=8

Subject	Grade Level	App Name	Description
Science	7-12	The Elements: A Visual Exploration (iPad only)	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. You start off at a living periodic table where every element is shown with a smoothly rotating sample. To read about tin, tap the tin soldier. To read about gold, tap the gold nugget. Immediately you see the sample filling nearly the entire screen, photographed to razor sharpness and rotating around a complete circle in front of your eyes. Brings the periodic table to life. Makes Chemistry cool. Some pages include live video clips of experiments showing interesting properties of the elements. Includes stories and facts about the elements. iTunes Store URL: http://itunes.apple.com/us/app/the-elements-a-visual-exploration/id364147847?mt=8
Science	K-12	Weather Bug (iPad and iPod)	WeatherBug is the only source for truly live, local weather – providing users access to the largest network of professional weather stations in the US and thousands of locations around the world. This version of WeatherBug is a free, ad-supported application. If you are interested in an ad-free version that also includes several additional features and enhancements, look for our premium product – Weatherbug Elite. Live, local weather conditions and forecasts. 7-day and hourly forecasts. National Weather Service (NWS) alerts. Daily national weather outlook video. Radar maps with zoom feature. View live weather cameras (up to 5). Fast access to saved locations (up to 10). Cached weather data for offline viewing. Map auto-center function (US only). iTunes Store URL: http://itunes.apple.com/us/app/weatherbug/id281940292?mt=8

Subject	Grade Level	App Name	Description
Social Science	K-12	National Geographic World Atlas HD (iPad only)	Unlike other map applications, the National Geographic World Atlas HD utilizes our highest resolution, press-ready images, providing you the same rich detail, accuracy, and artistic beauty found in our award-winning wall maps and bound atlases. The app is preloaded with 3 different styles of world maps, down to country-level detail. With an internet connection, you can continue zooming through continent-level maps to detailed Bing maps - close enough to see your home! Students can learn more about the world around them using the up-to-date, expertly researched, Flags and Facts database which contains concise geographic and socio-economic data. Bookmark favorite places with notes or pictures from your photo library. Find places by name using the built-in index of major world cities or the full online search of nearly 7 million places. iTunes Store URL: http://itunes.apple.com/us/app/world-atlas-hd/id364733950?mt=8
Social Science	6-12	US Constitution (iPad and iPod)	This is a simple App that contains the text of the US Constitution. It's divided into sections including the Preamble, each Article, the Bill of Rights and other Amendments. A great review and resource tool. iTunes Store URL: http://itunes.apple.com/us/app/constitution-for-ipad/id363287472?mt=8

Subject	Grade Level	App Name	Description
Social Science and Art	K-12	Beautiful Planet HD (iPad only)	A photographic journey around the world. This App captures the breathtaking beauty of our world and its cultures with a collection of galleries three decades in the making by travel explorer-Peter Guttman. iTunes Store URL: http://itunes.apple.com/us/app/beautiful-planet-hd-for-ipad/id363660568?mt=8
Music	K-12	Nota HD (iPad only)	Nota is a set of indispensable tools for musicians at any level. It has a piano chord and scale browser, a piano and staff note locator, a note quiz and a reference library with over 100 symbols. For beginners, Nota's tools covers the basics of music notation with a 4 octave piano that displays the notes on a staff, a full screen landscape mode piano for practicing and an interactive notes quiz to test your knowledge of notes. For advanced users, the scales browser has a comprehensive list of common and exotic scales. Nota will show the scale, play it and display the notes, intervals and half-steps. The chords browser makes it easy to find a chord and play it on any key or invert it. You can now set the notation to strict or simplified and also set the root to sharp or flat. iTunes Store URL: http://itunes.apple.com/us/app/nota-hd/id365724129?mt=8

Subject	Grade Level	App Name	Description
English and Foreign Languages	K-5	LetterShaker iPad Edition (iPad only)	With Letter Shaker some letters of a word have been lost. Students need to put them back into the right position. A student can do this by touching the right letter and moving it with his finger in the right position. If the word is complete he can hear the sound of the object the word describes - a dog barks, the bus blows his horn and from the castle you hear a spooky sound. Practice for early readers. 3 levels allow for greater challenge. Available in English, German, Spanish, French or Italian to help English Language Learners or students studying a foreign language. For anyone starting out with reading and writing in any of the five supported languages. iTunes Store URL: http://itunes.apple.com/us/app/lettershaker-ipad-edition/id364895987?mt=8
Reading	K-5	Question Builder (iPad and iPod)	Question Builder is designed to help elementary aged children learn to answer abstract questions and create responses based on inference. Extensive use of audio clips promotes improved auditory processing for special needs children with autism spectrum disorders or sensory processing disorders. Audio clip reinforcement can be turned on or off for non-special needs children. Question Builder offers a rich and fun environment for improving the ability to abstract. Why, What, Where, How and Random question formats, 1200 audio clips of questions and answers, 3 levels of abstraction, Optional text and audio reinforcement, Statistics to track student progress, 60 encouragement animations and audio clips. iTunes Store URL: http://itunes.apple.com/us/app/question-builder-for-ipad/id364823150?mt=8

Subject	Grade Level	App Name	Description
Language Arts	K-3	(iPad and iPod)	iWriteWords teaches your child handwriting while playing a fun and entertaining game. Children learn letters, numbers, words and handwriting by tracing on the touch screen. Each letter and word is spoken as it was completed. Created for early readers and writers. iTunes Store URL: http://itunes.apple.com/us/app/iwritewords-handwriting-game/id307025309?mt=8
English Language Learners	K-8	(iPod only)	PencilBot ESL Apps provide an exciting mix of language, culture, knowledge, and cool topics, all in entertaining short videos and interactive mini games. Experience authentic language in real life situations, so you can see how English is used naturally. Targets intermediate to low advanced English learners. iTunes Store URL: http://itunes.apple.com/us/app/pencilbot-esl-2-green-level/id313446540?mt=8
English	K-5	Phonics Jr. (iPad and iPod)	Phonics Jr. helps to improve reading, spelling, pronunciation, and build self confidence in these areas. With individual sounds, (spoken by a certified teacher) Phonics Jr is the ideal tool to teach the basics of reading and help build a strong foundation for spelling. iTunes Store URL: http://itunes.apple.com/us/app/phonics-jr/id326558275?mt=8

Subject	Grade Level	App Name	Description
English, Social Studies	K-12	Newspapers (iPad only)	Newspapers is the most comprehensive and easy to use directory of thousands of local newspapers with free online content around the world. iTunes Store URL: http://itunes.apple.com/us/app/newspapers-for-ipad/id364745388?mt=8
Art	K-12	Sketchbook Pro (iPad)	Autodesk SketchBook Pro for iPad is a professional-grade paint and drawing application. Using the same paint engine as its desktop counterpart, SketchBook Pro delivers a complete set of sketching & painting tools through a streamlined and intuitive user interface designed exclusively for the iPad experience. Whether you are an occasional doodler or a professional illustrator, SketchBook Pro transforms your iPad into the ultimate digital SketchBook. Foster student creativity with this drawing app Export to Photo Library E-mail images. iTunes Store URL: http://itunes.apple.com/us/app/sketchbook-pro/id364253478?mt=8
Art	K-12	Art Authority (iPad only)	Art Authority transports you to an enthralling, real-world art museum filled with works by over 1,000 of the western world's greatest artists, from ancient times to today. Save works to Photos Apps and use them in your own digital pictures. iTunes Store URL: http://itunes.apple.com/us/app/art-authority-for-ipad/id364048834?mt=8

Subject	Grade Level	App Name	Description
Art	K-3	Kid Art (iPad and iPod)	Kid Art allows your students' imaginations to go wild as they draw, stamp, and save their masterpieces to share with you later. iTunes Store URL: http://itunes.apple.com/us/app/kid-art-for-ipad/id364820354?mt=8
English	K-12	Dictionary.com (iPad and iPod)	The free Dictionary.com app delivers trusted reference content from Dictionary.com and Thesaurus.com, including nearly 1,000,000 words and definitions and 90,000 synonyms and antonyms. No Internet connection is needed. The app also features audio pronunciations, similarly spelled words and Dictionary.com's popular Word of the Day that is enjoyed by millions of people. Phonetic and audio pronunciation, example sentences, nonstandard uses, word origin and history, editable recent word look-up. iTunes Store URL: http://itunes.apple.com/us/app/dictionary-com-dictionary/id364740856?mt=8
History	K-12	History: Maps of U.S. (iPad and iPod)	Maps of U.S. is a fun and educational collection of high- resolution historical maps about the United States. Wide variety of historical displays about the United States. Find maps by category or era. Keyword Search. Zoom in/out (zoom-in/out with pinch, zoom-in with double tab, and zoom-out with two-fingers tap). Does not require a network connection. iTunes Store URL: http://itunes.apple.com/us/app/history-maps-of-u-s/id297561323?mt=8