

# iPad Math Apps for the Classroom

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(this is not an exhaustive list, by any means)

MUST HAVES:

Wolfram Alpha, Google Earth, TED viewer, PBS, a scientific calculator

## Free Apps

Minds of Modern Mathematics – created by IBM and the Eames Office – a wonderful interactive timeline of the history of math, connected to Wikipedia, beautiful visuals, many mathematicians, touch on historical facts or events, includes interesting videos by subject, view mathematical timeline against historical timeline

Protractor, Tape Measure, Metronome others – nice tools that allow you to use the iPad as the actual tool

StatViz – View colorful graphs of different probability distributions (pdf or cdf), dynamically move the variable X to see the area, includes binomial, poisson, geometric, Chi-Square others

QuickGraph – a pretty good, easy to use graphing app, pinch window to enlarge, make smaller, adding functions is pretty easy, similar to a handheld calculator, the colors are nice, can graph 3-D, derivatives, many premade functions in library, email capability, Advanced feature for \$199 (tracing, etc.)

Graphbook – just a set of very nice mathematical images that might be useful, they can be pinched to enlarge/make smaller, rotate, etc., you can change parameters to change some of the graphs (sine wave, butterfly curve)

[www.geogebra.org/web/web\\_gui/](http://www.geogebra.org/web/web_gui/) - this is the pre-beta release version of geogebra for tablets (ipads, etc) they are hoping by the end of June to have something in the iTunes store. They have a Chrome App released with Save to Google Drive

<https://chrome.google.com/webstore> and search for geogebra

Soundrop (upgrade to Pro for 1.99) – described as musical geometry, so much to be discussed with this app – it's amazing. Create music by the length of line segments and physics, as points bounce off of the segments you place. Love it.

Torus Games – Jeffrey Weeks' app version of his Geometry Games webpage Torus games. Play tic-tac-tie on the surface of a torus or do a word search on the surface of a Klein Bottle. These are amazing and fun games that will get your students thinking.

Educreations App – you must have an educreations account in order to use this, but I find it extremely useful to post notes and/or help to students on my Moodle site.

## Apps to Buy:

Algebra Touch (1.99) This is one of the nicest Algebra “teaching” apps I’ve come across. It actually has built-in features that help students learn the skills needed to move ahead at their own pace. Unlike other apps out there, it at least attempts to explain some sort of understanding to the student. It also has practice problems or you can make up your own problems for your student.

Sketchpad Explorer 3.99 Really nice app that allows you to manipulate JavaSketchpad files which come with it and access files that are online. However, it’s not a program – you cannot make sketches with it yourself.

Geometry Pad (free initially and then in-app upgrade for 2.99) This is the closest thing to a dynamic geometry “program” that I have found as an app. It is actually pretty nice even without the upgrade. Fun to play with and easy to use.

iCrosss (.99) This app allows you to view different polyhedral from different angles and then choose a cross section to view when you tap some points on the solid. It’s useful in a course if you need to visualize the cross sections.

Set (7.99) love it! Play it all the time – yes, the most expensive app I’ve ever bought, but I just love it and so do the kids.

Please NOTE: There are TONS of Note-taking apps and so many of them have great features like importing/exporting pdfs, annotating with voice, digital ink, etc. I have YET to find the perfect one. After trying

Note Taker HD, Phraseology, PaperPort Notes, and Penultimate, I have decided on using UPAD as my main notetaking app. I really like it and it’s easy to import pdfs. I like the wrist guard and for the most part it works. (There’s a free version of UPAD that you are unable to project if you’d like to try it).

Others to try: Voicethread, NumberLine Game (early learners) Random Number