

Apple iOS Paid Applications

Grid Lines Ordered Pair Game [1.99] – (Green Globes for the iPad)

- Grid Lines is a Battleship-style math game used to teach students the coordinate plane by plotting points in all four quadrants.
- Two player mode using Bluetooth, or One player mode.
- iPad's may e-mail results to teacher (E-mail account must be enabled).

Algebra Touch [2.99]

- Simplify and solve algebraic expressions with your finger. Drag to rearrange, tap to simplify, and draw lines to eliminate identical terms.
- Example: Say you have $x + 3 = 5$. You can drag the 3 to the other side of the equation.

Math Pentagon [Various - Subscriptions @ 9.99 Per month for all subjects, or One Time Fee of 19.99 – 49.99 per subject]

- Company that has created “worksheet” packages that cover several math topics and courses.
- Mainly collections of problem sets that can be utilized for practice.
- Gives immediate feedback and allows repetition.
- Ability to individualize, and create student reports.
- https://www.youtube.com/watch?v=jHN_j-SasVY#at=392

YourTeacher.com [Various - One Time Fee of 9.99 per subject]

- Company that has created packages that cover several math topics and courses.
- Each package has a dry video “teaching” the concept followed by a collection of problems that can be utilized for practice.
- Gives immediate feedback and allows repetition.
- <http://www.mathhelp.com/demo/demo-intro.php?lp=ls>
- Teacher videos are dry and might not “teach” material in an ideal manner.

Math App - Geometry I [0.99]

- Collection of the properties of polygons.
- Embedded quizzes to test applications of properties.

Trigonir [1.99]

- An interactive Unit Circle that allows the user to interactively plot lines and determine the different trig values of any angle measurement.
- Also has an interface for manipulating trig functions in the trigonometry-graphing window.
- Contains a reference page of many trigonometry formulas.

Ti-nspire [29.99]

- Creates an all inclusive Ti-nspire calculator with the iPad.
- Allows users to import images and compute mathematics with image in the background.

DragonBox Algebra 5+ [5.99] DragonBox Algebra 12+ [9.99]

- Application that initially begins as a game where users try to isolate a “Dragon Box” by using algebraic reasoning in disguise, and eventually leads the users to solve multi step equations.
- <https://www.youtube.com/watch?v=4kE8cosvwNM#at=47>
- Possible drawback is that students are learning to practice a skill prompted by on screen cues and not truly understanding the mathematics behind the moves, but can be solved with simple follow up questions.

MeStudying: Algebra 1 [4.99]

- Provides problem sets divided into algebra topics for users to complete and assess at their own pace.
- Ideally used as a review or test prep piece.

Math Doodles [2.99]

- Four mathematical games where the users must use mathematical reasoning to advance.
 - Sums Stackers: Values are piled into three stacks. Each stack is randomly assigned a target sum. Move values and sets of values around with the tip of your finger from stack to stack until the sums of each stack equal the target sums represented at the bottom of the screen.
 - Connect Sums: Users develop their number sense by trying to clear series of random values presented in a 4x4 array. Selected values are cleared when their sum equals the target sum.
 - Unknown Square: Users begin to explore algebraic thinking by developing strategies to solve for unknowns found in a 3x3 array of values. Horizontal, vertical, and diagonal sums for the values are shown.
 - Splat Go Round : Users develop an understanding for rotations by experiencing math in action. Users rotate a fly swatter to splat a target fly. Users can choose from several rotational modes including clock hours, clock minutes, angles, and fractions.
 - Sneak Peek Challenge - Pattern Twist : Develop spatial visualization of patterns while solving this Math Doodle puzzle.

Math Dictionary for Kids [2.99]

- This app includes illustrated, concise explanations of the most common terms used in general math classes, categorized by subjects that include measurement, algebra, geometry, fractions and decimals, statistics and probability, and problem solving.
- E-Mail and Print capabilities (Must be set up on device)
- Note taking function
- Word of the Day mode
- Good terminology used but many free reference tools are available as well.

Futuba [7.49]

- Multi Touch classroom competition game.
- Multiplayer competition allows 2-4 players on one iPad
- Ability to set up games with premade question sets or make your own question sets.
- https://www.youtube.com/watch?v=Eai6X_k8mR0

WolframAlpha [2.99+ 0.99 One Time Fee for image extension]

- Super computer that can access thousands of domains;
 - <https://itunes.apple.com/app/wolframalpha/id334989259?mt=8>
- Very powerful app that can be utilized in many classroom settings.

Wolfram _____ Course Assistant [Various 1.99 - 4.99 One Time Fee per course]

- Wolfram Alpha course specific content organized in a single application aimed at a course preview or review.
- Example: Algebra course has the following menus: Evaluate, Solve, Plot, Expand, Factor, Simplify, Analytical Geometry, Inverse Functions.

Geometry Regents Buddy [1.99]

- Lessons & Premade Quizzes premade for Geometry content.

AirServer [3.99 per license for 20+ licenses, 11.99 for 3 otherwise] – This is a product that allows any Apple Device to share it's screen with any computer running the program. The idea is to purchase AirServer and install it on the teacher or presenter's computer. During class, a student can double tap the home button, slide the application bar to the right and then choose to share their iPad on the screen. This is the program that I use to present from my iPad wirelessly, and ideally you would do this with student's iPad's to showcase their work during a live class.

Math Ref [1.99]

- Browse over 1,400 formulas, figures, and examples to help you with math, physics, chemistry and more.
- Tools such as a unit converter, quadratic solver, and triangle solver.

Creation & Presentation Apps

NearPod (Free+ Monthly Subscriptions (\$10) for upgrades)

- Makes each apple device a personal follow along classroom responder.
- Teachers can implement with direct instruction to have students respond, share out, and ask questions during live time presentations.

Camera [Free]

- Write on images

Video Camera [Free]

- Recording Studio

Educreations

- Create walkthrough videos with animations.
- Very basic and user friendly.

Doceri [Free]

- Create walkthrough videos with animations.
- More advanced Video Creation.
- Allow pause and “fast forward drawn images”

Paperport Notes [Free]

- Edit, and create documents.

Inspiration Maps Lite [Free+ \$9.99]

- Electronic mind map creator

General Math & Reference

Ask3 [Free]

- Interactive bulletin board for students.
- Allows users to post questions on files, or images. Users may then respond with text or video clips to answer each other.
- Students are encouraged to respond and score students response and help.

MyScript Calculator [Free]

- Touchscreen calculator that can solve single variable algebraic equations

Free Graphing Calculator [Free]

- Free Graphing Calculator

Quick Graph [Free]

- Excellent free graphing calculator.
- Allows for rotation and individualization rotation of 2D and 3D equations.
- Several built in equations.

MathTerms [Free]

- Colorful bilingual (Spanish) glossary of math vocabulary, several examples with images

Minds of Modern Mathematics [Free]

- IBM Sponsored
- Colorful interactive timeline of the history of math

iMathematics!

- Advanced Math Reference

Geometry

SketchPad Explorer [Free]

- Explore (not create) GSP files.
- Navigate <http://sketchexchange.keypress.com/> to find interactive GSP files.

iCross Lite [Free+ .99]

- Explore Cross sections
- *G.6.a – Describe and draw the intersection of a given plane with various three-dimensional geometric figures.*

Geometry Pad [Free+ 5.99]

- Euclidean geometry constructions
- *G.2.a – Use constructions to explore attributes of geometric figures and to make conjectures about geometric relationships.*

Geogebra [Free] - December 2013

- Multi-touch super calculator that allows user to complete a multitude of operations.

Algebra

TandH [Free]

- Explore rate of change problem with a cartoon race between a rabbit and a turtle. You determine the distance of the race, the speed of each character, and the time the rabbit will rest in the middle.
- Built in Follow Up Questions
- *A.6.a. Develop the concept of slope as rate of change. (2007)(SS)*

Sub Algebra [Free]

- “BattleShip” type game where students guess a line by plotting points.
- Must write equation of line to continue playing.
- *A.3.a [A.6.d] SS – Graph and write equations of lines given characteristics such as two points, a point and a slope. (2012)(SS)[2007]*

Flabido [Free]

- Has three activities in which the student explores the functional relationships of distance/time/speed compared to time in given situations.
- *A.1.e. RS – Interpret and make decisions, prediction and critical judgments from functional relationships. (2007)(RS)*

Lion Grapher [Free]

- Students can play through 4 game styles where they are asked to graph lines given various pieces of information.
- *A.3.a [A.6.d] – Graph and write equations of lines given characteristics such as two points, a point and a slope, or a slope and y-intercept. SS (2012) [2007]*

Slope Slider [Free]

- A linear equation is graphed with sliders controlling m , b , and a random point on the line.
- *A.6.c. – Investigate, describe, and predict the effects of changes in m and b on the graph of $y = mx + b$. RS (2007)*

DiamondFactor [Free]

- Students are given several practice “diamond’s” or “x’s” to help with factoring trinomials.
- *A.10.e [A.4.a] – Factor, if possible, trinomials with real factor in the form $ax^2 + bx + c$. (2007) [2012]*

Algebra Champ [Free]

- *8.8.c. – Model and solve one-variable equations with variables on both sides of the equal sign that represent mathematical and real world problems. (2012)*
- *A.5.a. – Solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides (2012)*

Exponents [Free]

- Students are given exponent rules and have immediate opportunity to practice skills.

Pre-Algebra

MathChamp [Free]

- Assessment app that allows teacher to host a class, push out questions, and see live results.
- Competition based classroom and users that submit the correct answer first are highlighted
- Very large collection of questions.
- Cannot edit or add questions, but can add or remove individual questions.
- *Various TEKS up to 8th grade.*

Point Plotter [Free]

- A line is graphed and students are asked to determine points that are contained on the line. Points are awarded for each correct coordinate and bonus points are awarded if students can identify the equation.
- *6.11 – The student is expected to graph points in all four quadrants using ordered pairs of rational numbers. (2012)*

Function Mystery Machine! [Free]

- *8.5.b – Find and evaluate an algebraic expression to determine any term in an arithmetic sequence (2007)*

Linear Model [Free]

- *8.5.a [8.5.a, 8.5.b] – Represent linear proportional/non-proportional equations in. (2007) [2012]*

Middle School Math 7th Grade [Free]

- Student led quizzes through several topics in MS math
- *Various 6th, 7th, and 8th TEKS*

Reckonings [Free]

- Students are asked to compute certain values given a series of numbers, and operations.
- *8.2.c locate, compare, and order integers and rational numbers using a number line; (2012)*

Cover Up Math [Free]

- Leads students through step-by-step process of solving linear equations using the cover-up method.
- *8.8.c – Model and solve one-variable equations with variables on both sides of the equal sign that represent mathematical and real world problems. (2012)*
- *A.5.a. – Solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides (2012)*

Ooops [Free]

- Order of operations game where students may drag parenthesis into the correct location.
- *6.2.e – Use order of operations to simplify whole number expressions. (2012)*

Sushi Monster [Free]

- Adaptive game that forces users to learn factoring skills.
- Multi-level that leads towards 6th grade TEKS.

GeoBoard [Free]

- Creates an interactive GeoBoard on your iPad

Long Division Touch [Free+ Unlimited Problems for One Time Fee of 0.99]

- Learn the mechanics of long division with a touch interface. Drag digits down, slide the decimal into the correct position, and tap to identify repeating decimals.
- Example: Say you have $256/8$. Drag 8 into '25' and find the correct multiple. Then drag the 6 down and finish the problem