



## Free Must-Have iPad Apps for Secondary Math

[5 Dice: Order of Operations Game](#) - The game encourages students to use higher order thinking to solve the "target" number by working backwards given the answer but not the equation.

[Algebra Champ](#) - Designed for grades 6 - 8, Algebra Champ provides practice solving straightforward, single variable linear equations in a game-like format.

[Algebra Pro – Complete Workbook with ShowMe Lessons](#) – This app includes over 100 practice questions with instant "ShowMe" lessons: if you get stuck on a problem, just tap "ShowMe" and see a step-by-step animation of how to solve the problem, instantly.

[CandyFactory Educational Game for iPad](#) - CandyFactory is an educational game that teaches the concept of fractions to middle school students based on splitting operations with partitioning and iterating.

[DataAnalysis](#) – This app can be used for the plotting and fitting of all types of data that can be formulated as x,y pairs

[Fill the Cup](#) - Four math games allow students to experience math concepts through manipulation.

[Fraction Factory](#) - Enter the Fraction Factory and use your math skills to place fractions into their correct positions on a number line.

[Freddy Fraction](#) - Help Freddy find his way back home safely using fractions, decimals, and percentages to lead him back to his spaceship!

[Graphing Calculator by Desmos](#) – Explore math with Desmos! Plot functions, create tables, add sliders, animate your graphs, and more -- all for free.

[iSpy-X](#) - iSpy-X is a fun way for kids to practice basic one-step math algebra skills while playing a game!

[Khan Academy: Algebra 1](#) - Khan Academy Algebra allows students to learn Algebra through 36 different videos.

[Khan Academy: Geometry](#) – Learn geometry with a variety of video lessons.

[Khan Academy: PreAlgebra](#) - Khan Academy Algebra allows students to learn Algebra through different videos.

[Lobster Diver HD](#) – This app, designed for grades 3-8, is great for reading numbers, understanding fractions, reading a number line, and comparing and ordering fractions.

[Mad Minute Math HD](#) – This app provides different calculators, including standard, scientific, prime number, square root, properties of a circle, sine, cosine, and tangent.

[Math Snacks HD](#) - Math Snacks videos are available in HD for your iPad, complete with learner's guides, teacher's guides, and comic book transcripts for printing!

[Math Vocabulary Cards](#) - Each card features three sections: a math term, a representative example or model, and a concise definition. Each section can be hidden or revealed providing multiple options for practice. Vocabulary cards can be selected individually or by category and switched seamlessly between English and Spanish.

[Middle School Algebra](#) - Bounce the monkey up the steps as high as you can. Answer questions correctly to keep going. The free version includes quizzes on these topics: words to equations, evaluating expressions, and solving one- and two-step equations.

[Middle School Math 6<sup>th</sup> Grade](#) - Answer questions by popping balloons as fast as you can. Math topics included are: multiplication (0-10), division (0-10), addition (0-99), and subtraction (0-99).

[Middle School Math 7<sup>th</sup> Grade](#) - Guide the monkey down the ladders to the end of a level. Math topics included are negative numbers, absolute value, and order of operations. There are three levels of difficulty for each topic.

[Middle School Math 8<sup>th</sup> Grade](#) - Help the monkey jump across the logs to the end of the level. Math topics included are: rational and irrational numbers, radicals and exponents, scientific notation, and graphs.

[Ooops](#) - Ooops presents a series of problems that are solved by placing one or more sets of parentheses on the right side of the equation to make it equal to the number on the left. At any point, the player can check his work by pressing the check button to see how parentheses have changed the result. This will show them the steps of the problem as the operations are performed in order.

[Pick-a-Path](#) - Help Okta the octopus reach the target (maximum, minimum, or a specific value) by choosing a path from the top of the maze to the bottom. Seven levels with seven puzzles will test your skills with powers of ten, negative numbers, fractions, decimals, and more.

[Shuttle Mission Math](#) - Shuttle Mission Math is a mathematical puzzle game that makes algebraic thinking both visual and interactive. The goal is to find the weight of each space creature and assemble a team for the next shuttle mission. Intended for ages 10+.

[Sketchpad Explorer](#) - Drag, manipulate, and animate visual mathematics to develop and generalize your understanding of fundamental concepts across elementary math, geometry, algebra, trigonometry, calculus, and beyond.

[U Protractor](#) – Use the iPad camera to measure angles.