










# iPad App List






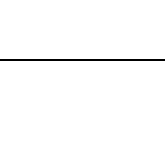







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Type		Cost	Comments	Curriculum Links	Stage	Rating
Built in functions	Camera 	Free	Still camera: Students can photograph work samples when engaging with concrete materials. Students can write descriptions of their photographs and the teacher can then annotate these work samples. Video camera: This can be used by students to present their work or to record themselves completing a procedure. For example, you could ask students to rule and measure a line with a ruler. The student could explain the procedure as they complete it.	Dependent on task.	K-3	★★★★
	Maps 	Free	Maps can be used to explore position/location anywhere in the world.	Measurement & Geometry: Location	2-3	★★★★
	Calendar 	Free	Students can explore concepts relating to time and investigate number patterns when using the 'month' or 'year' view.	Measurement & Geometry: Time Number & Algebra: Patterns & algebra	1-3	★★★
	YouTube 	Free	There are thousands of YouTube clips related to mathematics that can be accessed for projection on an IWB. However, there are issues with students accessing inappropriate clips so beware!	Dependent on task.	ES1-3	★★★★
APPS						
Generic Apps for recording visual and audio	ShowMe 	Free	ShowMe is a brilliant app that has great potential for use with primary mathematics. Teachers can use this to demonstrate on an IWB. Students can record their work and then present it to the class for constructive feedback. For example, students learning to use open number lines can record their	Dependent on task.	K-3	★★★★






			work (in writing and verbally) and then share on the IWB. The other students can then discuss different strategies etc. By signing up to ShowMe teachers and students have access to ShowMe lessons created by other teachers and can share their own.			
	Educreations 	Free	This app is similar to ShowMe, however it requires you to sign up and create an account before being able to view any recordings. The app allows you to integrate photos and files into presentations.	Dependent on task.	2-3	★★
Generic Apps	Woolworths 	Free	The Woolworths app is very useful for conducting investigations where shopping is the context. Also useful for developing critical numeracy skills in relation to price comparisons and value for money.	Number & Algebra: Money, fractions	2-3	★★★★
	Keynote 	\$10.49	Similar to Microsoft PowerPoint. Students can create presentations on the iPad – great for illustrating their understanding of specific concepts or for presenting mathematical investigations.	Dependent on task.	2-3	★★★★
	World Factbook 	\$5.99	This app provides data on every country in the world. Excellent tool for exploring statistics and the use of large numbers (be aware that commas are used to separate place value groups)	Statistics & Probability Number & Algebra	2-3	★★★★
	Whereis	Free	This app is a GPS. Great for practice in following directions as well as concepts relating to location.	Measurement & Geometry: Location and transformation	2-3	★★★★

						
	Google Earth 	Free	One of my favourites! Google Earth is great for teaching concepts of location. It is also a very good tool for exploration 3D space – try looking for the pyramids at Giza, or the Pentagon building in the US.	Measurement & Geometry: Location and transformation, geometric reasoning	1-3	★★★★
	Lifelike Clock Lite 	Free	This clock app is useful for exploring time concepts (analogue only in the free version) as well as temperatures.	Measurement & Geometry: Time, temperature Statistics & Probability: Gathering and interpreting data	1-3	★★★
	Weather + 	0.99	Weather+ provides the temperature at each hour as well as five days ahead. Great for recording data.	Statistics & Probability: Gathering, presenting and interpreting data	2-3	★★★
	WorldClock 	Free	Explore different time zones with this app - students can add any country.	Measurement & Geometry: Time	2-3	★★★
	Garage Band 	\$5.49	Although primarily a music app, links between mathematics and music can be made as well as the development of pattern recognition and development.	Number & Algebra: Patterns & algebra	2	★★★




						
	HistoryMaps 	Free	This app contains a range of historical maps that can be used to highlight the differences between old and new, as well as providing practice with coordinates.	Measurement & Geometry: Location	3	★ ★ ★
	Timer 	Free	A handy app for timing group work or other activities. Also useful for developing concepts relating to the passage of time. Young students could estimate how many times they can write their name in one minute, then test it out using the timer.	Measurement & Geometry: Time	1-3	★ ★
	Clock Pro 	Free	This clock app displays the time in digital and analogue and includes a metronome and other timers.	Measurement & Geometry: Time	1-3	★ ★ ★
Generic Educational Apps	BrainPOP 	Free	The BrainPOP app is linked to the subscription based website <a href="http://www.brainpop.com">www.brainpop.com</a> . The app provides a free animated movie each day on random topics and also has some free mathematics based movies available. Further access is available via subscription.	Range of topics available.	2-3	★ ★ ★
Mathematics Apps <i>Number</i>	Base 10 Blocks	0.99	This is similar to the Hands-on Base Ten Blocks app below. The learner manipulates representations of Base 10 blocks onto a place value chart and a cumulative total is kept. There is an option for addition and subtraction with this app. The	Number & Algebra: Place value, addition, subtraction	1-2	★ ★






			term 'borrowing' rather than 'trading' is used for subtraction.			
	CoinCalc 	0.99	This app could have been quite good – except for the fact that it includes one and two cent coins! Very little functionality – not recommended.	Number & Algebra: Money		☹
	Colours & Shapes 	Free	A basic counting app that has audio so does not rely on children being able to read. Great for the early stages of kindergarten.	Number & Algebra: Whole number Measurement & Geometry: 2D Shapes	ES1	★★
	Concentration 	Free	This is an NCTM (National Council for Teachers of Mathematics) app. It is basically a game of concentration, however, players can change the content. The app covers a range of content in number starting at subitising, all the way through to equivalent fractions. Very useful for building fluency.	Number & Algebra	K-6	★★★★
	Coop Fractions 	Free	A fraction app that is quite entertaining! This app provides practice at placing proper and improper fractions in a number line. Players choose a level of difficulty.	Number & Algebra: Fractions	3	★★★
	Deep Sea Duel	Free	This NCTM app is great for practicing mental computation and problem solving. The user plays against 'Okta', the octopus by taking turns to select cards from a pile with the aim of reaching a target number. The player can select the	Number & Algebra: Addition	3	★★★★






		level of difficulty.			
Digicubes 	Free	Digicubes is a nice app that is based on number ideas. The app involves manipulating squares. When the squares are joined, they change colour according to the colours used in Cuisenaire Rods. The app allows early learners to explore number facts and number patterns.	Number & Algebra: Whole number, patterns	ES1	★★★★
Factor Samurai 	0.99	This app is based on the Fruit Ninja game app where players need to slash numbers until they are left with only prime factors. Students need a strong understanding of prime numbers for this game which has three different speed levels: grasshopper, apprentice and master. This is a good game that older primary students would enjoy.	Number & Algebra: Whole number	3	★★★
Fraction (lite) 	Free	This free app does not have much function. It does have screens that are intended to explain fraction concepts visually, although students may not gain much without teacher explanation. There is a question/answer level that provides multiple-choice questions. In terms of engagement, this app is not much better than a worksheet.	Number & Algebra: Fractions	3	☹
Fraction 	0.99	As above, with more levels of difficulty. No better than the free version.	Number & Algebra: Fractions	3	☹
Fraction Fiddle	Free	An interesting fraction app that focuses on addition. This app is quite good in that it allows the user to see a visual representation of the fractions being added. It also provides a record of the questions answered, which is important in	Number & Algebra: Fractions	3	★★★

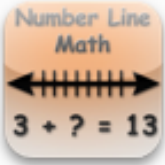




			terms of allowing the teacher to assess students.			
	Friends of Ten 	Free	This app uses a visual of a ten frame and counters. The app can be used as the teacher to demonstrate 'friends of ten' or can be used by the students to practice.	Number & Algebra	K-1	★★★★
	Hands-On Math Base Ten Blocks 	0.99	A nice app that allows students to drag Base 10 to represent specific numbers. The app also provides addition and subtraction algorithms that students must represent using the Base 10. This part of the app does not appear to be very effective – not recommended.	Number & Algebra: Whole Number	1	★★
	KenKen Pro 	0.99	If you love KenKen puzzles, you will love using this app with your students. The app allows the user to select KenKen puzzles from 3 x 3 grids to 7 x 7 and also includes two levels of difficulty: easy and unsigned (the operation is not given).	Number & Algebra: Addition, subtraction, multiplication & division	2-3	★★★★
	King of Maths 	free	In this app players are provided with a set of single digit numbers to add. Players are to continue adding until they end up with a single digit. Eg. $1 + 2 + 3 + 5 = 11$ , $1 + 1 = 2$ This app is quite limited but may be useful for students who need practice building fluency in addition.	Number & Algebra: Addition	1-3	★












	Math Bubbles 	Free	A colourful app that young learners might find appealing. This one provides practice at each of the number operations and there are different levels of difficulty. The app does not provide feedback for incorrect answers and the fonts are difficult to read. The multiplication symbol is represented as an asterisk and may be confusing for students.	Number & Algebra	K-1	★
	Math vs. Zombies 	Free	This app has a video game feel about it, which students would love. It requires the user to answer simple addition and subtraction questions in order to gain points. The focus is on speed, so this app is a good way to build fluency in addition and subtraction.	Number & Algebra: Addition and subtraction	1-3	★★★★
	MathBoard addition 	Free	The free version of this app is limited to addition but does give a variety of options for the user. This app also has a 'problem solver' that explains how to solve an addition problem step-by-step which students can select when they require assistance. The only issue with this app is that it does not encourage mental computation and provides formal algorithms when they are not always necessary.	Number & Algebra: Addition	2-3	★★
	Math Doodles 	Free	This is an app designed by award winning designer Daren Carstens. The app includes three separate puzzles – Sums Stacker, Connect sums and unknown square. This app is highly recommended for the mathematical content and the potential to address all of the Working Mathematically strands.	Number & Algebra	1-3	★★★★
	Maths Pop 	Free	Again, this app practices the four operations and players can choose their own level. Rather than solve an equation, the app provides the answer and the operation, and players must complete the question. A little difficult to use – players have	Number & Algebra	2-4	★




		to drag a balloon with the number and place it within the equation. Creepy music!			
Maths Quest 	\$1.99	A good app for building fluency in addition, subtraction and whole number understandings including rounding. Instant feedback provided.	Number & Algebra	1-3	★★
Maths Trainer 	Free	Skill & drill app for the four operations. Players choose which operations to practice and the level of difficulty. This app is really no different to a worksheet.	Number & Algebra	1-3	★
Math with Springbird 	Free	A very cute app that focuses on basic addition and subtraction. This app is a multi-level game where the user must answer simple multiple-choice addition and subtraction questions to progress. Feedback is constant in this game. However, if players get an incorrect answer, they are not given another opportunity to answer that question.	Number & Algebra: Addition & subtraction	ES1-1	★★★
Motion Math Zoom 	Free	This app is just a free taster. Once you have played the introductory level you cannot progress unless you purchase the full app (\$6.49). The player is basically required to place numbers on a number line. May be useful in an early years classroom for a quick activity, however this app won't engage learners for a sustained period of time.	Number & Algebra: Number & place value	ES1-1	★
My Student Budget	Free	This app is appropriate for upper primary students and great for organising real or simulation budgets. A good app for learning about financial mathematics.	Number & Algebra: Financial mathematics	3	★★

						
	My Math Flashcards 	Free	This app presents vertical algorithms for the four operations – using single digit numbers. Not recommended!			☹
	Neo Maths x 	Free	Skill & Drill app for number operations. Players select levels. Feedback is only provided when the level is complete, so players do not know which answers were incorrect. Not recommended!	Number & Algebra	1-3	☹
	Number Bubble 	Free	In Number Bubbles players are given a target number. They then tap on number bubbles that add to the target. Players can also use multiplication. There are three different skill levels: Time, Survival & Child	Number & Algebra: Addition, multiplication	1-2	★★★
	Numberline 	Free	This number line app focuses on fractions, decimals and percentages, requiring the user to place different fractions on a number line. The level of difficulty increases as the user progresses through the app.	Number & Algebra: Fractions	3	★★★
	Number Line Math	0.99	In this app the user is given a number line and an addition or subtraction equation. The user can select the footprints to see the equation on the number line, and then answer the question by selecting the appropriate number. This app is	Number & Algebra: Addition, subtraction	ES1-1	★★★

		useful for helping students work with number lines with the view to building mental computation skills.			
Teaching Number Lines 	Free	Number Lines explores the skills of sequencing, skip counting, and addition. This app provides feedback when numbers are placed correctly on the number line. There is no sound with this app and young children will also require some literacy skills to read the instructions. The app also includes a teaching tool that provides opportunities for teacher-led instruction.	Number & Algebra: Number, addition, subtraction.	ES1	★★★
Number Rack 	Free	This app is one that teachers would use to demonstrate addition and subtraction using number beads. The app allows the user to add or subtract beads that are grouped in fives. Groups can also be covered by a shade to allow students to practice counting in groups of five. This is not an app that students could engage with unless they are given highly structured instructions and work in pairs.	Number & Algebra: Number, addition, subtraction	ES1-1	★★
Pick-a-Path 	Free	This app is published by the NCTM. Each level is a maze with a target number. The user must pick a path (each path has number operations) that will result in achieving the target number.	Number & Algebra: Multiplication	2-3	★★★
Pizza Fraction 	Free	A fraction app that is problematic in that it uses a pizza to represent a circular region. No other shapes are used to represent fractions. This is basically a counting exercise rather than an exercise to increase students' understanding of fraction concepts.	Number & Algebra: Fractions		☹

	Place Value 	0.99	This app requires the user to answer questions regarding the place value digits. For example, the number 5436 is given and the user is asked questions such as 'how many tens'. The user must then tap the number on the screen, which is a little difficult until you get used to the amount of pressure required. This app would be appropriate for very short lengths of time as it is quite repetitive.	Number & Algebra: Number and place value	1-2	★
	Red Dragonfly Mathematics Challenge 	Free	This app is actually a problem-solving book that has been adapted for the iPad. It has a good range of problems and their answers, but is not interactive. Students need to record their working on paper. This app would work well with an interactive whiteboard and could then be used for whole-class problem solving. A great resource.	Number & Algebra Measurement & Geometry Statistics & Probability	3	★★★
	Rocket Math Free 	Free	This app embeds mathematics practice within a game that requires players to earn money and medals. Players choose an avatar and then get to modify a rocket. Players then launch their rocket and respond to mathematics questions. There is a choice of numbers, time, US Money (inappropriate here), shapes/patterns, multiply/divide. The game aspect of this app would make it appealing to some students.	Number & Algebra Measurement & Geometry	2-3	★★★
	Sums Stacker 	0.99	This app is addictive for those who like problem solving. Users are given three stacks of objects (ranging from dice, ten frames, to binary numbers and currency) and must drag values from stack to stack until they equal the target sums below each stack. The ultimate aim is to solve the problem in as few moves as possible. This is an excellent resource for students who need extension work and is excellent for developing problem solving skills.	Number & Algebra	3	★★★★
Measurement & Geometry	Bee-Bot	Free	This app replicates the Bee-Bot robot and requires the users to move from one position to another specific position on a small grid, using forward, backward, left and right arrows to	Measurement & Geometry: Position	ES1-1	★★★★

			program the Bee-Bot. Great for practicing the language of position.			
	Lets Tans 	Free	This Tangram app is actually built for iPhones but works quite well on the iPad. I included it on this list because it is better than the Tangrams LE app below. The pieces in this app are coloured and you a record is kept of the length of time taken to solve each puzzle.	Measurement & Geometry: 2D shape, transformation	ES1-3	★★★
	Measure Length 	Free	Although the title of this app implies it's content focuses on measurement, it is actually a subtraction-based app where a ruler appears on the top of the screen, an animal is placed below it, and the user is provided with three possible measurements. My objection to it being used as a measurement app is that the animals are not placed at zero. Rather, they are placed somewhere near the centre of the ruler and as such, are not requiring the user to practice the skill of measurement.	Number & Algebra: Subtraction	1	☹
	Pattern Blocks 	Free	This app replicates the standard pattern block set with the addition of two extra shapes. The app provides the option of using a triangular, square or no grid as a background. Users simply drag shapes onto the grid. Shapes can also be layered which allows for exploration of fraction concepts as well as shape and tessellation.	Measurement & Geometry: 2D shape, transformation Number & Algebra: Fractions	ES1-3	★★★★
	Symmetry Shuffle 	1.99	Another app by Daren Carstens. This app focuses on translations and although I found it difficult to begin with, it gets easier and is very engaging.	Measurement & Geometry: transformation	2-3	★★★★

	Tangrams LE 	Free	Users maneuver the traditional tangram pieces to fit onto a range of silhouettes. Tangram pieces are all one colour (yellow). Users can tap on the pieces to rotate them. Good for the development of visualisation skills.	Measurement & Geometry: 2D shape, transformation	ES1-3	★★
	Tap Tap Blocks 	Free	This app allows the user to create 3D objects from coloured cubes. By swiping the screen the user can rotate the object to view it from different perspectives. This app would complement the use of concrete materials and would be great to use when teaching students to draw on isometric dot paper.	Measurement & Geometry: 3D objects	2-3	★★★★
	Think 3D Free 	Free	This is a great app that allows the user to create and manipulate 3D objects. Excellent for assisting students develop visualization skills.	Measurement & Geometry: 3D objects	2-3	★★★★