App Manual

Many apps on iPads include In-App Purchases
Prices listed are as of January 2019

Check out my website for more resources!
assistivetech4lds.weebly.com

BUILT IN ACCESSIBILITY FEATURES ON IPAD

- The iPad supports Bluetooth enabled hearing aids. Connect them and then triple click the home button for options

Many of the following features can be accessed through (Settings>General>Accessibility)

- **Dictation** (speech to text) is built right into the keyboard and is incredibly accurate. It is activated by pressing the microphone icon on the keyboard.

- **Predictive keyboard** – word predication (called Quick Type) is built right into the keyboard. IOS learns what words a user frequently uses in different types of writing (email, word processing, etc.)

- **Safari reader feature** – great for users who are easily distracted. It removes ads and visual clutter from the Safari web browser and is activated by pressing the paragraph symbol in the upper left corner of the browser

- **Guided Access** - This feature disables the home button, so user is technically locked into an app. This may be helpful for kids who are easily distracted. Even specific parts of an app can be disabled.

- **Voice Over** is a feature reads the iPad screen. It also changes controls so that gestures can be used to navigate and select options. Any app that uses default controls has built in Voiceover support. Voiceover can be turned on in settings under accessibility in general. It is fairly easy to use and has built in directions. There is a practice with voiceover option within voiceover settings. Speaking voice can be changed and the speed of speaking can be adjusted.

- **Zoom** makes it easy to make portions of the iPad screen larger and more legible.

- **Magnifier** allows you to use the device's camera as a magnifying glass.

- **Display Accommodations** allows users to enable color filters, reduce white point (this dims the brightness of whites and bright colors on the screen), invert colors and change the color tint. These features may be useful for people with color blindness, low vision, or sensitivity to brightness.

- **Speak Selection and Speak Screen** are both very helpful for users with dyslexia, vision problems, or other reading struggles. Both read text aloud. Speak selection lets user select blocks of text to be read. Speak screen reads entire pages of text. Words can be highlighted as they are read which helps with comprehension. The voice and reading speed can be changed. The way a word is said can be adjusted using the pronunciation feature.

- The **Large and Bold Text** accessibility feature can make fonts bigger, heavier, and easier to read.

- **Touch accommodations** can help people with motor skill deficits. It can make a touchscreen easier and less frustrating to use. As an example, a user can activate a feature called hold duration which requires an on-screen button to be held for a certain amount of time before it is activated.

- **Assistive Touch** makes the iPad easier to use for people with physical or coordination impairments. A special on-screen menu allows taps and gestures instead of complex manipulations such as pressing three buttons at once. Custom gestures can also be added.

- **Home Button** allows users to change how the home button is used. For example, it can be used as an accessibility feature and used to toggle Voiceover. You can change the home click speed to increase the time needed to recognize a double or triple click.

Wireless Bluetooth Keyboard by Omoton

This wireless keyboard can be purchased on Amazon. Uses 2x AAA batteries (included in pouch – **PLEASE remember to turn the keyboard OFF before returning it to Springfield Free Public Library**). This keyboard is extremely lightweight and has all of the features of an Apple computer keyboard. It works with any app with a text-input option (apps such as Voice Dream Writer, Ghotit, and CoWriter, along with others).

Price: $15.99

CoWriter

CoWriter is a word prediction App. It predicts what a student is trying to say and suggests the proper words and phrases. It offers feedback while writing by reading single words, sentences or the entire document. Topic dictionaries can be accessed so word prediction can be tailored to the student's topic. It utilizes Flexspell technology which can interpret and correct phonetic mistakes or inventive spelling.

Price: $34.99

Speechify

Speechify is a voice-to-speech app. It is best suited for students with Dyslexia and ADD. Document formats that are supported on speechify include PDFs, website links, copied and pasted text, and documents imported from Google Drive, DropBox, or iCloud. You can also take a picture of physical text and have the app scan it and read it back to you. Listening to the text while reading along has been proven to increase levels of comprehension and reading speed. While the text is being read, the word that is being spoken at any given moment is highlighted on the screen, making it easy for the user to follow along. The user may also click on any word in the document to start listening from that word. While listening to/reading a document, you can adjust the volume, skip forward or go backward, and change the speed of the audio. To add a document, click on the plus sign at the bottom of the screen. Then, choose which document format you will be uploading (you can take a picture under the 'scan' tab, or upload documents by clicking another tab and following those instructions.

Price: Free (In-App Purchases)

MyScript Calculator

MyScript Calculator is a perfect calculator app for users with dysgraphia. It allows the user to write math problems on the screen by hand, and translates the written problems into computer-typed, easier to read font. An answer is generated to the problem that is written immediately, and can be manipulated in many ways. It is easy to cross out incorrectly-written parts of the problem, as well as develop calculations over several lines if the problem is long. A history of all calculations is kept on the left tool bar, making is easy for users to go back and look at old work, as well as recover old problems if the problem was not completed. Problems that can be solved on MyScript Calculator include, but are not limited to: basic addition, subtraction, multiplication, and division problems, square roots, percentages, exponents, trigonometry, and so much more.

Price: $2.99

Photomath

Photomath is a calculator app that can solve math problems in seconds using the camera on the iPad. It can be used as a standard calculator, as well as a camera calculator that uses handwriting recognition technology to read and solve the problem. After the answer is given, the app develops a step-by-step explanation to the problem, including animated instructions that allows the user to understand each step to the problem at his or her own pace. Some types of problems that can be solved on Photomath include fractions, decimals, roots, linear equations/inequalities, quadratic equations, logarithms, trigonometry, derivatives and integrals, and so many more.

Price: Free (In-App Purchases)

Quizlet

Quizlet is a flashcard app. Users can either create their own set of flashcards, or use a set that was made by another user. Quizlet is an extremely versatile app, that allows users to generate tests using the study sets, as well as play games to allow them to become more familiar with the terms that are being studied in a more interactive and exciting way. The tests are generated by the app, and include fill in the blank, multiple choice, and true or false questions to test the user's knowledge on the study set. There is no limit as to how many terms can be included in a study set, nor to how many times a set can be studied or games can be played.

Price: Free

SnapType Pro

Snaptype allows a student to take a picture of any worksheet with the iPad's internal camera and then type answers directly onto the iPad. It is very simple to use Documents can also be imported from email as well as applications such as Google Drive. Once text is typed, it can be moved around and positioned as needed. Simple word prediction which is very useful for those struggling with spelling is built right in. Lines can be drawn using your finger. Documents can be saved, emailed or printed as needed.

Price: $4.99 (limited free version available)

ModMath Pro

Probably best for Middle and High School Students. Works as virtual graph paper where students with writing difficulties can set up math problems legibly. Problems can be written out and solved right on the iPad screen using the custom keypad. It eliminates the need for a student to write out the problem. IT does NOT solve problems or provide answers. Page can then be printed, emailed or saved. It can be used for more basic math such as addition and subtraction, multiplication and long division as well as more advanced concepts such as fractions, square roots and algebra. The PRO version includes an image import feature so that teacher worksheets can be implemented. A note tool allows students to write comments next to their work.
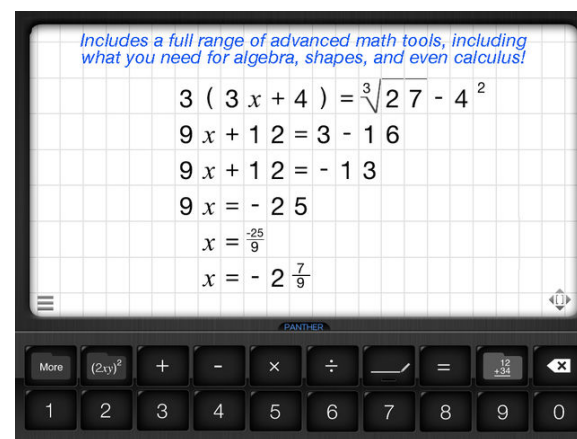
Price: $4.99 (Free version is available)

Panther Math Paper

Works similarly to ModMath but may be slightly be better for younger kids, as it has a bigger work grid and bigger keyboard. It offers "skins" for the keyboard which make it more appealing to younger kids

Price: $19.99

Microsoft Lens

This app turns your iPad into an efficient scanner. There are 3 available image types – photo, document or whiteboard. Students can use Lens to snap a picture of notes of a whiteboard, blackboard or a handout from class and make them readable. The saved image can be exported to many applications; One Drive, Microsoft Word or Power point, an email, a PDF File or your photo library. It works especially well with Microsoft One Note. Microsoft Lens uses OCR (optical character recognition). Voice Dream Reader can read a document that was scanned by Microsoft Lens. It works especially well with Microsoft One Note.

Price: Free

Microsoft OneNote

You can think of One Note as a digital three ring binder. Notes can be organized within the app to personal preference. Notes can be handwritten or typed and documents/notebooks can be annotated. Images and audio can also be added to text. Learning tools are set of learning features available in One Note (and Word) that allow the user to change font or text size, highlight parts of speech, change background color and utilize immersive reading.

Price: Free

Algebra Touch

Algebra Touch is an educational app that teaches kids to solve algebraic equations. It breaks each part of algebra apart which allows a student to master each part individually. Students manipulate variables within problems with their fingers, making it a multisensory approach. For example, a student can drag and rearrange an equation so that like terms are together for easy adding. Students can create their own problems to solve.

Price: Free

Times Tales

Many kids with learning disabilities struggle with working memory. Learning basic multiplication and division can prove very difficult for some students. Times Tales is a creative and fun mnemonic based program. Cute and simple stories make it fun and easy to memorize the multiplication tables.

Price: $9.99

Quick Math (and Jr.)

Both versions of Quick Math are game like and help kids learn basic math facts in a fun way. It is a timed, high speed flash card style game. Kids answer the math question by drawing the number on the screen.
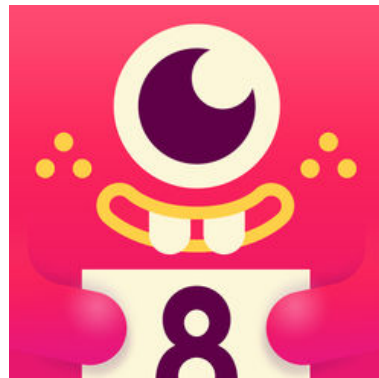
<u>Side notes:</u> This app has fairly good handwriting recognition but may prove challenging for severely dysgraphic students. Also, timer can NOT be turned off, so may not be good if child struggles with timed games. Junior version is targeted towards a much younger age group.

Quick Math – Free (In-App Purchases)

Quick Math Jr. – Free (In-App Purchases)

Math Interactive

Math Interactive is appropriate for higher-level High School math. It is a reference tool. The user can quickly search for formulas or find directions (accompanied by showing diagram) how to find the area of a triangle. There are 23 subjects including Geometry, linear equations, quadratic equations, statistics and many more.

Price: Free (Premium Version $2.99)

CalcBot 2

CalcBot 2 is a calculator app that performs basic and scientific math functions. The calculator is easy to use. It features a history tape so every calculation (up to 10 in free version, unlimited on premium) entered gets saved. Being able to see frequently used calculations can help kids who have trouble remembering what numbers they input. A VERY helpful conversion table can be viewed by swiping right on the black answer bar on the calculator. It can also convert one unit of measurement (such as temperature, time, mass, speed, currency) to another.

Price: Free ($1.99 premium)

Symbolab

Symbolab is a calculator app that helps solve even the most complex mathematical equations. It gives you step by step directions to solving the problem. The user can then take a quiz based on the problem they just solved as extra practice. It is easy to use and all required characters and symbols can be found on the calculator.

Price: Free (In-App Subscription)

Voice Dream Reader

Voice Dream Reader is a great app that is full of amazing features for people with dyslexia. When you first open the app, you are able to choose the voice you want to read the text to you (pre-programmed on this iPad). You can save articles directly from Safari to the app to have them read out loud, or you can select a document/book from the "All Items" list. The app will continue to run even if the user closes out of it and clicks onto another application. The word that is being spoken at time any given is highlighted, so the reader knows where he or she is in the text and also helps to maintain focus of the reader. There is a 'distraction' free feature as well, where the reader can pinch on the screen to restrict the visible text to just a few lines. There are bookmarking, highlighting, and annotating features as well as a built-in dictionary and full-text search options. 27 languages are available. Bookshare is an online library for people with learning disabilities. It is FREE to anyone with a documented disability through their website. (www.bookshare.org) . It can be easily linked to Voice Dream Reader so the iPad can be used easily to listen to all types of audio books.

Price: $9.99

Voice Dream Writer

Voice Dream Reader is especially useful for dyslexics and the visually impaired. It helps improve writing through the use of text-to-speech proofreading, Word Finder, which allows the user to search for words phonetically or by its meaning) and an outline tool to help organize ideas. The outline tool is always on and creates an outline of headings, paragraphs and sentences which you can then drag and drop to organize your writing. It can also be used as a note taker or a powerful word processor. Users can customize the look of the app by changing change the font, margins, line spacing, text or background color. The text to speech reading voice and speaking rate can be changed. This app can be used with a Bluetooth keyboard.
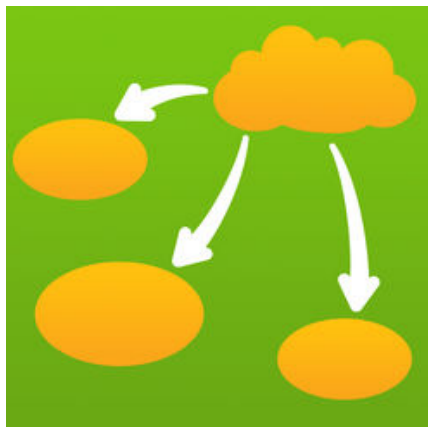
Price: $9.99

Inspiration Maps

Inspiration Maps is a very intuitive and powerful visual learning app. It allows users to easily create diagrams, graphic organizers and outlines. Many built in templates are available, or the user has the option of creating from scratch. Creations are completely customizable. There is a searchable graphic library or pictures can be inserted from device camera roll. Audio recordings can also be attached. Background colors, line colors, and font can all be changed. This quick brainstorming tool makes sure no great ideas are ever lost. Drag and drop technology allows for easy organization of ideas. Diagrams can be transformed into outlines and back again.

Price: $9.99

Kidspiration Maps

Kidspiration Maps is a graphic organizer that is geared specifically towards elementary aged (K-5) students. It can also be used with older students who need more visuals to organize their thoughts. It helps kids organize and classify information and expand their ideas into written and verbal expression. Users can create story maps, Venn diagrams and webs which allow students to visualize what they are learning, thereby also improving comprehension. A microphone feature allows kids to express their thoughts while creating their diagram. This allows kids (especially those with receptive and expressive language difficulties) to practice their language organization and verbal memory. The app also includes many useful premade activities in reading, writing, social studies and science. It also includes virtual manipulatives in math, making it a great multisensory learning tool.

Price: $9.99

yHomework – Math Solver

yHomework Math Solver is an easy to use math problem solver. The interface looks like a traditional calculator. The student inputs the problem or equation, and the answer is calculated, showing steps needed. This app is best for younger kids, middle school and below. Multi-step problems often prove to be very challenging for kids with learning disabilities. Frequent practice can help!
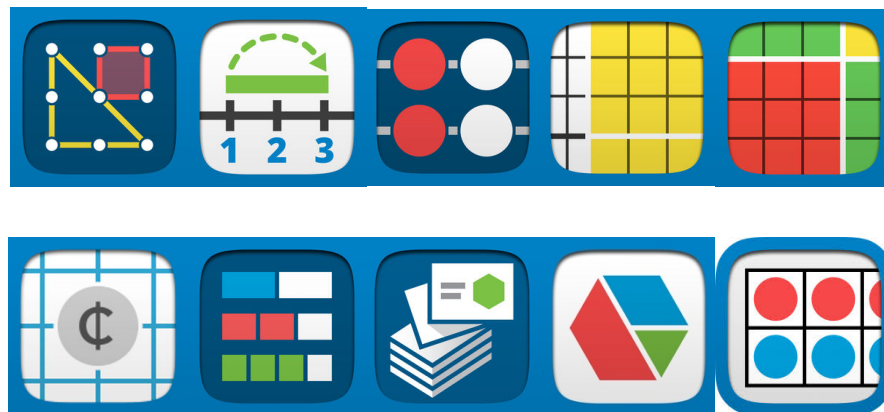
Price: Free (In-App Purchases - $4.99 for unlimited credits)

Math Learning Center

The Math Learning Center App Bundle by Clarity Innovation includes ten different math apps. These apps include: Geoboard, Pattern Shapes, Number Line, Number Rack, Number Pieces, Fractions, NumberFrames, Money Pieces, Number Pieces Basic, and Math Vocab Flashcards. All ten of the apps are available for download in the App Store, and they also each have their own web app for modern browsers. Each app focuses on a different basic math topic, and they all use different types of visual stimuli to enhance and improve the learning experiences of children with learning disabilities in math. The apps are multi-sensory, as they have drag and drop interactive features as well.

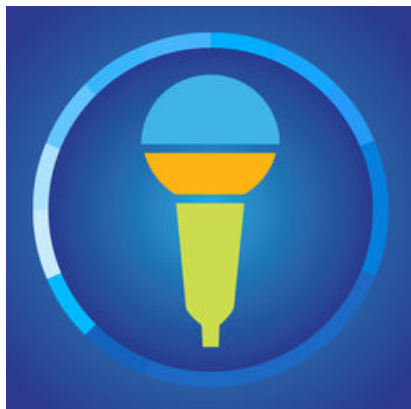**Price: All 10 Apps are Free**

Easy Spelling Aid

Easy Spelling Aid is an easy to use spelling app and translator. Allows the user to easily translate words to and from English and other languages. The app currently supports 22 different languages. Once opened, a microphone appears and the user says a word or a phrase, which then appears on the screen. The word or phrase is shown in "Open Dyslexia Font" (a font where letters have heavy-weighted bottoms which may help dyslexic learners recognize the correct letter and can help the brain from flipping letters).

<u>Side Note:</u> While the app offers high quality voice recognition, a student with articulation deficits may have trouble.

Price: $3.99

Hang Art

Memorizing sight words can be very difficult for students with learning disabilities. Using Hang Art, kids can practice sight words through three activities in this app. In a hangman style game, each correct letter guessed reveals a bit more of an illustration representing the word. Incorrect guesses reveal one more piece of a kid hanging on a trapeze bar. When you lose a word, the "hanging man" falls off the monkey bar. When you win a word, you are rewarded with a complete original illustration of that word. Once a word has been "won" kids can practice tracing the word. Kids can also draw pictures of the words they win by using a custom drawing tool. Users can also record, save, and playback digital animated stories using their words.

Price: $1.99

Claro ScanPen

The optical character recognition (OCR) technology that converts text to speech in this app is excellent. It allows users to quickly and easily snap a picture of text, convert it, highlight it and listen to it read out loud. A stylus or even your finger can be used to highlight what you need read. Several high-quality reading voices are available and ten languages are currently supported. Claro ScanPen has no access to the internet, which makes it a good option for use as a reader under testing conditions. For example, it could be used to read directions and exam questions to struggling readers.

Side note: Many reviews/users find that Claro Scan Pen is better for reading single words and lines of texts rather than long passages of text.

Price: $9.99

ClaroPDF Pro

This app modifies PDFs and converts them to be read out loud. Text can be highlighted as it is read. On screen drawing tools allow for documents to be annotated and edited. Lines and shapes can be drawn, sticky notes can be added and photos or text boxes can be inserted. There is also an audio annotation feature. Background colors can be changed and screen colors can be inverted.

Price: $9.99

ClaroSpeak Plus

ClaroSpeak Plus is a reading and writing app that features high quality text to speech. Users can type into the app and have the text read back making it a great option for proofreading text through listening. Copy and paste text from any app and have it read out loud. Any photo, screen shot or image that contains text is recognized, extracted and made readable. Apple's speech recognition can be used to dictate text directly into the app. Apple spellcheck also works.
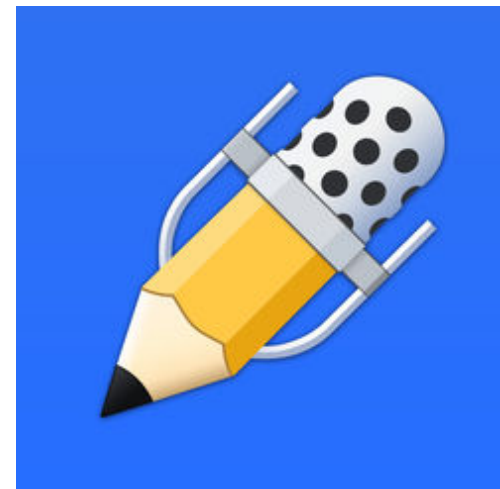
Price: $9.99

Notability

Notability is great for taking and organizing notes. It is very helpful for kids with executive functioning challenges. The app is very flexible and recognizes that students have different learning styles and challenges, so it offers many options for notetaking. Within a single page, a student can type, draw, handwrite, cut and paste, highlight and record audio. Visual learners can add photographs and drawings to their notes. It also has handwriting recognition.

Price: $9.99

Ghotit

Ghotit has many great features including word prediction (using content aligned vocabulary), speech to text, spell check, advanced grammar and punctuation editing, an effective proofreader, and reading assistance with dual highlighting. After activating the keyboard in settings (Settings>General>Keyboard> Add New Keyboard), the keyboard works in any app that allows text to be entered. Errors are not automatically corrected. Rather, the user must replace the error by double clicking or swiping on the correct option. The platform is simple. The editing window clearly separates grammar and spelling options. Errors are highlighted in different colors within the editing window rather than on the original text, which allow the user to focus on the sentence being edited. Dyslexia Keyboard is a custom keyboard that works within other apps, social networks and text areas of browsers. Ghotit Real Writer is a stand-alone, simple word processor that offers the same assistive features as the keyboard.

Price: $109.99 (Bundle)

Flashcards Deluxe

Flashcards Deluxe is a flashcards app/study aid full of amazing features. Within the study sets of flashcards, there is a text to speech feature, as well as options to create multiple choice/fill in the blank questions on the flashcards themselves. While going through the study set, the user is able to indicate whether or not they got the right answer before they flipped the card (swipe left for correct and down for incorrect – think 'thumbs down') so the app can customize the information that he or she studies. You can create your own sets or find sets that another user has created and shared in the 'shared library' tab under the add deck icon (+).

Price: $4.99

Otter Voice Notes

Otter is a productivity app that records audio. It is especially beneficial for high school students who would record lectures and discussions to supplement or replace notetaking. Audio recordings can then be listened to over and over again. The recordings are also transcribed to text, allowing users to hear and see the content, which is a strategy that benefits many different learning styles. Once the recording has been transcribed, keywords are assigned to the document which allows for easy searching and organization of notes. Pictures from the device's camera roll can also be inserted. A student could take a picture of notes on a whiteboard, for instance. Text is highlighted as it is read and reading speed can be changed.

Price: $9.99

Learning Ally Link

Learning Ally offers the world's largest library of audio books. Members get unlimited access to over 80,000 **human narrated** textbooks and popular literature. The Learning Ally website also offers many resources for parents.

Anyone applying for membership is required to supply documentation of a learning, visual or physical disability. The Learning Ally link app on this IPAD offers a sample membership only.

Side Note: BOOKSHARE is another audiobook library that is worth looking into. It is FREE to anyone with a documented disability. Go to website www.bookshare.org for directions. It is important to note that the primary difference between Bookshare and Learning Ally is that Learning Ally uses human narrators as opposed to the robotic voices of Bookshare. Once you have a Bookshare account you can link it to the Voice Dreamer Reader App to have books read aloud on the IPAD.

Price: Paid Membership
($199/year)