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# iPads to Support Students with Autism Spectrum Disorders

## *One district's implementation plan*

**Teaching students with autism spectrum disorder (ASD) in the regular classroom takes a lot of planning, collaboration and strategies. The Diagnostic and Statistical Manual of Mental Disorders (DSM-IV-TR) defines autistic disorder as a pervasive developmental disorder characterized by qualitative impairment in social interaction, qualitative impairment in communication and restricted, repetitive and stereotypic patterns of behavior, interests and activities.**

The degree of impairment in each area varies in individual students. Strategies that work for one student may not work for another. In the Upper Canada District School Board (UCDSB), school teams were looking for a new way to engage these students in the regular classroom while focusing on building skills in areas where needed. When looking critically at the learning profiles of these students, Superintendent of School Effectiveness, Susan Edwards, proposed exploring the use of iPads to reach and teach all students, but more specifically, students with ASD.

In late August 2011, principals were asked to invite classroom teachers to apply to be included in the ASD iPad Project. Teachers had to write a proposal suggesting how they might use the iPad to increase academic and social participation for a student with ASD in their classroom. It was important that the submissions came from the teachers themselves. We wanted teachers who would be involved because of a keen interest in how the tool could be used and who would be innovators in the use of apps to meet student needs. During September 2011, 55 teacher-student partners were selected to participate in the project. Each teacher-student pairing received iPads. We thought it important to equip the teacher with their own iPad, as well as equipping their student, so that the teacher could fully explore the iPad's potential as a teaching and inclusionary tool.

To help teachers focus on the use of apps to meet specific student needs, a Goals Template was created. The template was directly related to information in the students' individual education plans (IEPs). To help teachers fill in the goals template, Regional Student Engagement Teachers (SETs) for each family of schools met with school teams. They gathered student information, a list of strengths and needs and created a student profile. They used the Underlying Characteristics Checklist to gather information for the profile and to help select goals. Goals chosen could be from any section of the IEP (alternative program pages, academic program pages or accommodations). The plan had to include a list of the specific apps to be used to meet the chosen IEP expectations and a method of data collection to track progress. Evaluation of progress was then recorded at the end of the term. The SETs were involved with the iPad project from beginning to end. They helped schools write goals, find apps, implement strategies for using the iPad effectively and assess which apps were associated with achieving expectations as set in the IEP.

Collaborative learning and support are considered important at UCDSB, therefore a strategy was needed to facilitate this for staff working with students on iPads. UCDSB is a district that covers a wide geography. The strategy implemented by three SETs was “App Smack-down.” The Smackdown was open to all school teams, not just those involved in the iPad project. First, midway through the year, a template was created in SMART Notebook software to gather information about the apps staff across the District were using to support student goals and curricular applications, including the name of the app, producer, cost, the description of the app, curricular links and a description of how the app was being used.

The completed templates were collated into a single file to facilitate sharing. Next, participants from four families of schools gathered in one of four schools in four different towns to share with friends and colleagues hundreds of kilometers away via Adobe Connect. A two-minute timer was set and participants were invited to share the information about their favorite apps, which had been previously recorded in the template. Using Adobe Connect software and an LCD projector, speakers and a stand microphone, we were all able to watch the same SMART Notebook file and hear the participants from the different schools share their description of how the apps were being used. Each location also used another LCD projector and speakers connected to an iPad that had been loaded with all of the apps being shared so participants could investigate the various apps as part of the event.

At the beginning of March 2012, a survey was created using SurveyMonkey, an online survey tool. We wanted a way to collect data that was quick and easy for teachers to complete and for responses to be analyzed. The survey consisted of five questions, which were constructed so that teachers could select answers from a list and/or add their own answers. The data we gathered confirmed what had been observed in participating classrooms across the District.

**Please select the area(s) of need you focused on for the student selected for the iPad project.**

		<b>Response Percent</b>	<b>Response Count</b>
academic		72.7%	40
social		52.7%	20
communication		60.0%	33
behavior		29.1%	16
fine motor		25.5%	14

**Chart 1:** Teachers were asked to focus on no more than three goals per student for this project. The chart shows the goals and the percentage of students who had these areas highlighted on their goal template. As would be expected, many students had academic goals on their goal template. Math, reading, writing, written output and organization were the popular areas of focus for skill development under the broader heading of “academics.”

		<b>Response Percent</b>	<b>Response Count</b>
engagement in learning		63.0%	34
socialization skills		31.5%	14
communication skills		50.0%	27
inclusion in the classroom		44.4%	24
behavior (transitioning, self-regulation, etc.)		38.9%	21
independence		50.0%	27
work output		29.6%	16

**Chart 2:** This graph shows the area(s) of growth demonstrated by the students attributed to their use of the iPad.

In Chart 2, teachers were asked to select areas where the students had shown growth due to the use of the iPad. The options in Chart 2 were not necessarily goal areas teachers had selected for their students; rather they were areas where students with autism spectrum disorder, by definition, show deficits. We wanted to capture if using iPads with these students resulted in gains in these general categories. For example, 50 percent of teachers reported communication skills as an area of growth. This means that 27 of the 54 respondents saw an improvement in their students’ ability to communicate through the use of the iPad. Not all of these respondents had identified communication goals for their students as some students were deemed to be effective communicators prior to the beginning of the study. The same could be said for socialization skills, engagement, behavior, independence, inclusion and work output. Teachers were experiencing success with these students in the regular classroom.

In an effort to stress the movement from goals to tools, the teachers were asked to submit the name of all apps that were used successfully with the students to support each of the areas in Chart 1. An app was deemed successful if it was used effectively to meet a goal. Hundreds of apps were submitted. The apps were organized into the following categories, which correspond to categories identified in Chart 1: Academic, Communication, Social, Fine Motor, Behavior. One additional category of General Use was also included to capture other apps. A directory called Apps for ASD iPad Project, was created. The price, a brief description and an age range for each app was included, as well as a direct link to the app in iTunes. The directory was posted to [smartinclusion.wikispaces.com](http://smartinclusion.wikispaces.com) and emailed to all principals and vice principals in the Upper Canada District School Board to share with staff. The directory was also sent to Pathways to Independence, the Children's Hospital of Eastern Ontario (CHEO) and other community partners that support students with autism spectrum disorders.

The survey had identified that the time to find apps, the money to purchase apps and the narrowing down of selection of apps were barriers to effective use of the iPads. The hope was that the creation of the Apps for ASD iPad Project directory would help to alleviate some of these barriers.

The iPad project is continuing this school year, 2012-2013, based on the positive experiences and outcomes reported during the 2011-2012 school year. The students were able to keep the iPads and take them home over the summer. They continue to use this tool, alongside other tools, as part of their Smart Inclusion Toolkit this current school year to promote successful academic and social participation. The original teachers had to pass the iPad over to the students' new teachers so that they could become comfortable with the apps their students need to use to be successful in the classroom.

## REFERENCES

Dunn, A. & Perez, Luis. (2012) Universal Design for Learning: The Smart Inclusion Toolkit. *Teaching Exceptional Children* 45 (2). <http://tecplus.org/articles/article/9>

American Psychiatric Association. (2000). *Diagnostic and statistical manual of mental disorders* (4th ed., text rev.). Washington, DC: Author.

Goals template: <https://smartinclusion.wikispaces.com/iPads.ASD+Research>

Underlying characteristics checklist: [www.aapcpublishing.net/documents/books/9981.pdf](http://www.aapcpublishing.net/documents/books/9981.pdf)

SMART Notebook software: <http://smarttech.com/notebook>

Adobe Connect software: [www.adobe.com/products/adobeconnect.html](http://www.adobe.com/products/adobeconnect.html)

SurveyMonkey: [www.surveymonkey.com/](http://www.surveymonkey.com/)

Apps for ASD iPad Project Directory: <http://smartinclusion.wikispaces.com/iPads.ASD+Research> ■

NAME OF APP	DESCRIPTION	AGE RANGE	COST
<b>LANGUAGE APPS</b>			
A Novel Idea	This app helps with story writing elements: characters, setting, and plot. Create scenes and characters in no time.	10 - 18 years	Free / Pro \$2.99
ABA Flash Cards- Actions (Emotions, Vehicles, Sports, Earth Science available too)	Flash cards are used to foster mastery of new vocabulary and concepts. Visit the developers web site to find more apps . <a href="http://www.kindergarten.com">www.kindergarten.com</a>	3 - 8 years	Free
ABC Easy Writer- Printing HD Free Lite	Learn alphabet tracing. Trace upper and lower case letters. Stroke guidance provided.	2+	Free
ABC Magnetic Land	Through the use of colourful magnets, kids learn numbers, letters, symbols, shapes, animals and much more.	3 to 8 years	\$1.99
ABC Print Big Trace HD (also available- cursive and numbers)	Trace oversized letters with letter stroke guidance. Audio included.	2+	Free Full Version- \$1.99
Ace Learn 2 Bee: Sight Words	This app provides a fun environment for children to learn essential English words. Sight words can be grouped into pre-primer up to third grade.	3+	\$3.99
Cimo Spelling Sight	Learn 50 high frequency words from the Dolch Sight Word list.	4 to 9 years	Free
Color SlapPs	Teach children the names of twelve different colours. Created by a Speech and Language Pathologist.	2 to 8 years	Free
Fancy Pages Free	Bring together photos, clipart, text and freehand drawing. Create presentations, flyers, booklets, notes, sketches, charts, etc.	6+	Free
Fun Letters-cursive hand writing	Learn the alphabet, letters sounds and names. Trace cursive letters. Good for fine motor development.	3+	Free
I Like Books	" Enjoy 37 ""I Like"" children's picture books. Children learn about the world around them while learning how to read. "	1+	\$1.99
iConverse	This Augmentative Alternative Communication (AAC) is designed for individuals who have yet to master language. Use the built in buttons or create your own.	3+	\$9.99

iMovie	Make HD movies with this easy to use app. Create trailers, add photos, music and sound effects. Share your movie on the web.	6+	\$4.99
Kids ABC Alphabet Puzzle Game	Learn how to recognize shapes and figures by completing puzzles. Audio and visual hints can be provided. Use own photos to create puzzles.	2 to 6 years	Free
Kid's Book Report	Students can write all of the details needed for a good book report using the templates in this app.	6+	\$0.99
LAZ Level E Library	Children learn to read, write and discover the wonders of science. The LAZ Library starts at level aa and goes to Level R.	3+	\$6.99 per level
My First Words- Flashcards by Alligator Apps	Fully customizable, this app teaches students vocabulary. It combines audio, voice and written words.	1 to 6 years	Free
Phonic Awareness, 1st Grade	Students learn how to segment words, blend consonants, and learn vowel sounds.	3 to 8 years	Free
Phonics Vowels - Short Vowels, Long Vowels, Two Vowels	Students learn beginning sounds, ending sounds, word families, short vowel sounds, long vowel sounds and more.	3 to 8 years	Free
Reading Comprehension Grades 2-3	Short, engaging stories help to build reading comprehension. Immediate feedback helps keep students focused. Available from 1st grade to 3rd grade.	5 to 9 years	\$1.99 for each level
Scribble Press	Create and share stories with great drawing and writing tools. Download books to iBooks library. Over 50 story templates.	5+	Free
See.Touch.Learn	This app is a picture learning system designed for students with special needs. Customizable for individual students. In app purchases for other categories available.	1+	Free
Sentence Builder for iPad	Learn how to build grammatically correct sentences. 100 pictures provided to write about.	5+	\$5.99
Speak It! Text to Speech	This app reads your documents, emails, favourite articles. Copy what you want read into Speak it.	8+	\$1.99
Spell-A-Word,	This is an RJ Cooper app that builds keyboarding and spelling skills in students. Lessons can be customized for individual students.	5+	Free
Starfall ABCs,	Students can see, hear, and interact with letters and sounds in words, sentences, and games. Great for students learning English.	2+	\$2.99
StoryKit	Students can write stories by writing text. They can illustrate by drawing or taking a picture. They can record sound.	4+	Free
TeachMe: Kindergarten	Students learn sight words, addition, subtraction, and spelling. Students earn a coin after 3 correct responses. Coins can be used to purchase items. TeachMe apps start at toddler and go to 2nd grade.	3 to 5 years	\$0.99
Toontastic	Make cartoons to tell stories. Promotes creativity. Students can draw their own characters and settings or use ones that are included in the app.	4 to 10 years	Free
Touch and Learn- ABC Alphabet and 123 Numbers	Teach letters from A to Z. Teach numbers from 1 to 100. Teach phonics.	2+	Free
TumbleBooksToGo for iPad- 6-Pack Vol1	Tumblebooks are animated, talking picture books that have text, narration and sentence highlighting. Other packs are available at various costs.	1 to 10 years	\$5.99
Writer's Studio	Create text, art and graphics to share with friends. Text to speech included. Add voice, music, or a soundtrack!	8+	\$2.99

## MATH

Amazing Coin (CAD)	Students learn about Canadian coins by counting, paying, making change and matching. They are rewarded with a quarter and they can use spend their money in the food store.	3 to 8 years	\$1.99
Counting	Learn numbers from 1 to 10.	2 to 6 years	\$0.99
Counting Bear	Learn how to count from 1 to 20 using real photos. Add text and voice.	2 to 6 years	\$0.99
Jungle Coins	Easy to use educational app that teaches kids coin math in multiple languages. Canadian coins available as an in app purchase.	4+	\$2.99
LetsTans 10-in-1	Use virtual tangrams to finish over 1500 puzzles.	6+	Free
Math Easy HD	Learn to count from 0 to 20, identify odd and even numbers, add and subtract and learn simple multiplication.	2 to 8 years	\$1.99 / lite version available
Math Kid	Build foundation skills in Math through visual supports. Add, subtract, multiply, divide, and figure out fractions and percents. Rewards are built in.	4 to 11 years	Free
Math Terms	This app contains almost 1000 visual definitions of math terms for middle school students.	10 to 16 years	Free
Quick Graph	Quick Graph makes graphing equations easy in 2D and 3D. Up to 6 equations can be visualized at the same time.	10+	Free

Shape & Color	Learn shapes and colours in learning mode or game mode.	2 to 8 years	Free
Sketchpad Explorer	This app is based on The Geometer's Sketchpad®. Sketchpad Explorer allows you to interact with and investigate any document created in Sketchpad.	6+	Free
TeachMe: Kindergarten	Students learn sight words, addition, subtraction, and spelling. Students earn a coin after 3 correct response. Coins can be used to purchase items. TeachMe apps start at toddler and go to 2nd grade.	3 to 5 years	\$0.99
Tell Time - Little Matchups Game	Students learn to tell time by matching analog to digital clocks. Create your own matching games. Add voice.	3 to 10 years	Free

## FRENCH

French Baby Flash Cards!	Over 450 French words in 9 different categories.	1+	Free
French Verbs Free	This app contains the most popular French verbs in 16 different verb tenses. Full version has 2100 verbs.	8+	Free

## MUSIC

Music Notes	Learn to recognize music notes as they appear on the staff. There is a train mode and a play mode. Also available by same developer: Music Tones, Music Intervals, Music Cubes and Music Keys.	5+	Free
Music Sparkles	This app contains a large collection of musical instruments. Just tap and play the instrument you want.	1+	Free
<b>SCIENCE</b>			
LeafSnap for iPad	Learn to identify trees and flowers with this visual recognition software.	8+	Free
Science 360 for iPad	The National Science Foundation has provided science and engineering video from around the world.	8+	Free
AutismXpressPro	This app is designed to help students with autism to recognize and express their emotions through games.	3 to 8 years	\$1.99
Comics Creator	This app allows you to create comics using your own photos and one of ten templates. Rotate, pan, zoom in, & zoom out. A great app for creating social stories!	3+	\$0.99
Chess	Play chess against the iPad or against another opponent. Great for building turn taking skills and social skills.	8+	Free
Dusty D. Dawg Has Feelings Too,	This is a great story book that focuses on emotions. Customize the first page with the student's photo and name. Add your voice or the student's voice to each page.	3 to 8 years	Free

## SOCIAL

face-cards C	This app is a resource for exploring feelings and the faces that go with them. Face-cards portray the ten most common emotion expressions. People on the autism spectrum use face-cards to identify and explain feelings.	3+	Free
iCreate... Social Skill Stories	The app is designed to make unlimited personalized social skill story books by importing personal photos, adding titles, text and audio to unlimited pages in the story.	2+	\$4.99
If..Then..Fun Deck	This problem solving app has 52 if then cards that will enhance students' critical thinking, inferencing, and reasoning skills.	8+	\$1.99
iGet... My Clasmates Photo Album	This app gives picture, text and audio support to individuals learning about classmates. Add photo albums with up to thirty icons that can be personalized by the user. Text statements and audio recording can be added to each photo.	3+	\$2.99
Model Me Going Places 2	This app provides social stories for students who may have difficulty navigating going places in the community. Stories include going to the mall, play ground, doctor, hairdresser, restaurant, and grocery store.	2+	Free
Quick Cues	This app helps teens and young adults on the autism spectrum to handle new situations and learn new skills. The five modules include: communication, life skills, socialization, coping, and on the job.	teens/ young adults	\$4.99
Social Skill Builder	This app is a series of interactive videos that teach social thinking, language and behaviour that are critical to everyday living. Focus is on: friendship/life skills, critical thinking, emotions, and consequences.	3+	Free
Social Skills Sampler HD	This app is a complement to the Functional Skills System software. Each app contains digital videos that focus on functional life, literacy, math, social, health, transportation and work skills.	4+	Free
"Super Duper ""What are They Thinking?"" "	Use the App to improve your students' inferencing, reasoning, and conversational skills. The student then gives a verbal response. You score their response as correct or not.	4+	\$1.99
Touch and Learn - Emotions	This app focuses on helping kids read body language and understand emotions by looking at gorgeous pictures and figuring out which person is expressing a given emotion.	3+	Free
The Social Express	This app is designed to teach users how to think about and manage social situations, helping them to develop meaningful social relationships and succeed in life. Based on the work of Michelle Garcia Winner.	4+	\$89.99
What Would You Do at School If Fun Deck	Select the cards you want students to see, and have them work on solving problems and practicing good social skills as they discuss situations in and around school. The prompts include questions like, "What would you do if	8+	\$1.99
What Would You Do at Home If Fun Deck	Select the cards you want students to see, and have them work on solving problems and practicing good social skills as they discuss situations in and around home. The prompts include questions like, "What would you do if	8+	\$1.99

## COMMUNICATION

ABA Receptive Identification	This app teaches foundational language concepts to children. They learn to ask for, label and receptively identify items.	1 to 6 years	\$1.99
Audio Memos	This is an easy to use voice recorder. Create audio notes and save them or email them.	3+	Free
Answer:YesNo HD	This app provides the user with two customizable buttons that can contain pictures and/or text. Audio can be added.	2 +	\$3.99
ChoiceBoard-Creator	Create choice boards of up to six choices. Use your own pictures or text.	2+	Free
Conversation Builder	This app helps children learn multi-exchange conversations in social settings. Conversation is presented visually to that students recognize and master the flow of conversation. In app purchases available for other conversations. (4.99)	2 to 8 years	\$9.99
Easy Board	This is an easy way for teachers to provide visuals such as first/then, yes/no, and listening.	4 to 10 years	\$0.99
First-Then Board	Provide a first-then board using built in pics or pics from the web. Start with an activity then offer a reward!	2 to 8 years	\$1.99
iConverse	This Augmentative Alternative Communication (AAC) is designed for individuals who have yet to master language. Use the built in buttons or create your own.	3+	\$9.99
Injini Lite	This app builds receptive language through fun games such as matching, tracing and find it.	2 to 6 years	Free
IPrompts® XL	This app allows you to create picture schedules for daily activities or to complete tasks. It also contains a visual countdown timer, choice prompts and an image library.	2+	\$49.99
LinguPingu	The free version offers two categories-transportation and animals. Students learn vocabulary in French and in English. The full version comes with nine different categories.	2 to 8 years	Free
Match it up!	This app helps students to develop visual perception skills through the matching of conceptually related images. It also helps develop language skills by naming objects and colours.	2+	Free
Proloquo2Go	This app provides a full-featured Augmentative and Alternative Communication solution for students who are non or minimally verbal. It includes over 7000 items, advanced word prediction and is fully expandable.	4+	\$189.99
See.Touch.Learn	This app is a picture learning system designed to build vocabulary for students with special needs. Customizable for individual students. In app purchases for other categories available.	1 +	Free
Show Me....	This app is designed to improve receptive and expressive language. A speech model is presented for the child to imitate. The child's speech is recorded and then scored.	2 to 8 years	\$9.99
Sound Touch	This app provides the images and sounds of 360 animals, birds, vehicles, musical instruments and household items. Students tap a cartoon image and the real image pops open accompanied by the sound it makes.	2 to 5 years	\$4.99 / lite version- Free
Tom's Messenger	Record a short video and send it as a text message. You can choose to be Tom or another character. (in app purchase of 0.99)	6 +	Free
TapToTalk	This app turns your iPad into an augmentative and alternative communication device. Use the online tool, TapToTalk Designer at <a href="http://www.taptotalk.com">www.taptotalk.com</a> , to create albums and sync them to your iPad.	4 +	Free
Talk Assist	Talk Assist is an alternative speech aid that provides a voice for people who cannot speak for themselves. Anything you type in will be spoken out loud for others to hear.	8+	Free
Understanding Inferences Fun	Answer questions or complete sentences to help boost student's inferencing and reasoning skills. 52 question cards available.	6+	\$1.99
Verbally	Verbally is an easy-to-use, comprehensive Augmentative and Alternative Communication (AAC) app. It contains word grids, phrases grids and text prediction.	8+	\$1.99
Wheels on the Bus HD	This app encourages children's language and motor development. Sing with the student and have the student sing back and record the song.	2 to 5 years	\$1.99

## BEHAVIOR

Anger & Stress Management	This app provides relaxing music to help relax people in times of stress or frustration.	1+	Free
Anger Thermometer	The Anger Thermometer App teaches people how to identify, understand, and control their feelings and emotions. It encourages them to use coping strategies before losing control completely.	4+	\$1.99
AutismXpressPro	This app is designed to help students with autism to recognize and express their emotions through games.	3 to 8 years	\$1.99
Behaviour Break-through	This app is a training application using simulation and an interactive environment. Certain actions happen based on the choices of the adult user.	For Teachers	\$Free
BetterBrain	BetterBrain gets students to practice challenging memory tasks where they have to remember simultaneously audio and visual events.	8+	\$2.99
Calm Counter	Calm Counter is a visual and audio tool to help people calm down when they are angry or anxious. The app includes a social story about anger, and audio/visual tools for calming down.	4+	\$2.99

Fluid Monkey	This app provides a relaxing sensory atmosphere for students who need to calm or relax. Fluid environments can be changed to suit the needs of individual students.	1+	\$Free
Fan Free	Need some white noise to keep calm? This app is perfect for such times. Three different fans from which to choose.	1+	\$Free
Fluid	Turn your iPad into a fluid environment. Touch the screen and it's as if you just put your hand through a stream. Audio included.	1+	\$Free
Fluidity	This calming app allows students to play with or look at water. Uses customized photos or use the ones within the app.	1+	\$Free
Heat Pad	This app provides a relaxing environment without providing the feeling of heat. Nine different environments available.	1+	\$Free
HumorCalendar;	" This app tracks a student's humour for 365 days of the year. At the end of each day the students must answer the question "How was your humour today?" Record with a happy face, sad face or whatever face is needed. "	3 to 10 years	\$Free
Pull-Ups iGo Potty	This is a fun, rewarding app that will help train a student to use the toilet.	1 to 6 years	\$Free
iGlow	This relaxation app allows students to draw in seven colours of light. The drawings fade.	3 to 8 years	\$0.99
Liquid Mantra	Rising Lite is a real-time 3D fluid dynamics visualizer. Relax and watch waves roll in at the beach or lava flow down a mountain side.	1+	\$Free
Nature Sounds	This app provides relaxing nature sounds to help students calm. Many different sounds to choose from.	1+	\$Free
Now What	This app assists kids who need help with transitions and knowing what comes next in their day. The schedules are presented in text format.	12 years and up	\$Free
Peaceful Pond	Relax to the sound to water in the pond. Sounds of thunder can be turned on.	1+	\$Free
iScheduler	This app helps students to organize their daily activities, and track what is finished and not finished. Rewards are issued when tasks are completed.	3+	\$0.99
Sleep Pillow Sounds	This app provides an advanced set of high quality ambient sounds, premixed for sleep enhancement. The sounds are specifically recorded and enhanced to relax you and to make you sleep.	1+	\$Free
Stress Tracker	This app allows you to track your stress daily. It also provides build in strategies that can help you calm during times when you need to. Data is collected and presented as graphs.	8+	\$Free
Spin.The.Fan	This is a calming app. Students can spin the fan manually or it can be set for automatic.	1+	\$Free
Touch and Learn	This app focuses on helping kids read body language and understand emotions by looking at gorgeous pictures and figuring out which person is expressing a given emotion.	2+	\$Free
Uzu	Uzu is a kinetic multitouch particle visualizer. It is helps student to calm as points of light shoot across the screen. Very visual!	1+	\$1.99
Relax Melodies HD	This app provides 46 different sounds that can help you to relax.	1+	\$Free
VisTimer	This visual timer is in pie chart format. As the time ticks away, the pie chart starts to disappear. The free version measures time up to 5 minutes.	3+	\$Free
Time Timer	This app contains three different timer modes: 60 minute mode, custom mode and clock mode. This app allows you to set more than one timer at once.	3+	\$6.99
Work System	This app allows you to set up work tasks as based on the four essential questions of Structured Teaching. Students will know what to do, how much to do, when they are done and what to do next.	8+	\$Free
Video Scheduler	Use this app to video segments for video modeling or using picture/video schedules to help organize your student. Scheduler will promote independence and learning!	3+	\$12.99

## FINE MOTOR

ABC Cursive Writing	This is a fun way for kids learning the basics of cursive writing. Trace big letters with guiding strokes.	7+	\$0.99
ABC Easy Writer -Printing	This app provides upper and lower cases tracing. Audio is included so students learn the letter names.	2 to 6 years	Free
ABC Letter Tracing	Students learn to trace letters and are guided. Feedback is provided for proper letter stroke.	2 to 6 years	Free
Absolute Board	This app allows students to sketch and take notes with their finger! They can share and save their ideas then email their work.	3+	Free
All-in-One Big Trace Combo	Students can trace oversized letters and numbers. Both print and cursive are offered.	2 to 6 years	Free or \$2.99
Big Number Trace HD	Students learn the proper strokes with large numbers and as well are provided with audio of each number name.	2 to 6 years	Free
Build It Up	This app develops visual-perceptual skills as well as fine motor skills. Students will also learn math concepts such as size, top, bottom and before and after.	2.5 years	Free
Color Dots	This visual tracking game will build a student's visual tracking and fine motor skills. Very fun to play!	1+	\$0.99

Dexteria	Dexteria is a set of therapeutic hand exercises (not games) that improve fine motor skills and handwriting readiness in children and adults.	child & adult	\$4.99
Glow Draw	This is a drawing app which uses glowing colours.	3 to 6 years	Free
iWriteWords	Help Mr. Crab collect the numbered balls by dragging him with your finger - and drawing the letter at the same time.	2 to 6 years	Free or \$2.99
Wood Puzzle HD	This app contains 24 different puzzles for students. Piece rotation can be turned off so pieces just slide into place or it can be turned on to provide more challenge.	2 to 5 years	\$0.99

## GENERAL USE

Abilipad	This app combines the functionality of a notepad with word prediction, text-to-speech and a customizable keyboard.	4+	\$19.99
Corkulous Pro	Collect, organize and share your ideas on this virtual corkboard. Includes notes, labels, photos, contacts, tasks, index cards and arrow flags. Save your board as a photo and email it to a friend.	6+	\$4.99 / Free version available
Dragon Dictation	This is an east-to-use voice recognition application. Simply speak and see your words in text form. Dragon must be used with a wireless network.	4+	Free
Educreations Interactive Whiteboard	Turn your iPad into a recordable whiteboard. Create video tutorials for students. Walk students through math problems or essay writing.	4+	Free
Evernote	This app helps keep organized across devices (computer too)! Create and edit text notes. Record voice notes. Organize notes by notebook tags. Sync your notes with your computer.	8+	Free
iAM Search	This app helps teachers to discover apps for students with ASD based on over 300 unique identifiers that ask questions around age, gender, symptom domain, etc.	2 +	Free
Idea Sketch	Draw mind maps, concept maps or flow charts and convert them into a text outline or vice versa.	8+	Free
Inspiration Maps	Based on the computer software, Inspiration, this app has all of the same functions. Create mind maps, concept maps or flow charts and convert them to text. Move them to dropbox or iTunes. Use the premade templates.	8+	\$6.99 until end of school year / \$12.99
iThoughts	Another mindmapping, organizational tool. Export as a PDF. Organize maps into folders. Very visual.	8+	\$9.99
Keynote	If you can create a powerpoint presentation then you can use keynote! Create your own presentations or open ppt presentations from your Dropbox or iCloud.	10+	\$9.99
Microsoft OneNote	With this free version, you can access, create and edit up to 500 notes. Notes can include pictures, text, and bullets. Sync your notes online at <a href="http://www.skydrive.com">www.skydrive.com</a> .	8+	Free
N+OTES	Write your notes, create folders, search your folders, and send your notes to your email.	10+	Free
Pages	Create, edit, and view documents wherever you are. Choose from 16 templates and styles to create letters, reports, flyers, cards and posters. Customize your pages.	8+	\$9.99
PaperDesk	Take your notes with you. With this app you can include drawings, import PDFs from other apps, export to Dropbox, Google Docs, email, or Twitter and keep yourself organized with folders.	10+	\$3.99 for limited time (75% off)
PaperPort Notes	This is a digital note taking tool that allows you to combine documents, web content, audio, typed text as well as handwritten notes into a single document. Dragon is embedded.	5+	Free
Pictello	This app is designed to create talking photo albums and talking books. Great for Social Stories! Six language selections available.	1+	\$18.99
Plain Text - Dropbox text editing	This app allows you to create and organize your documents in folders and sync them with Dropbox.	8+	Free
Puppet Pals HD	Select actors and backdrops to create your own shows and audio in real time. Purchase the Director's Pass and star in your own creation and have access to many more characters and backdrops.	3+	Free / Director's Pass- \$2.99
RedLaser Barcode Scanner and QR Code Reader	Scan all major retail barcodes and QR codes. Create personalized QR codes for assignments, links to the web, etc.	6+	Free
Scribble Press	This app allows kids to imagine, create and share their own stories with great drawing and writing tools. Download your books instantly to your iBooks library!	4+	Free
ShowMe Interactive Whiteboard	This app allows you to record your voice as you create tutorials. Go to <a href="http://www.ShowMe.com">www.ShowMe.com</a> to view samples.	3+	Free
SonicPics	Turn your photographs into narrated slideshow movies. Record your voice. Create podcasts, video blogging, audio books, photo tours and much more.	6 +	\$2.99
Stickyboard	This app combines the functionality of a whiteboard with limitless sticky notes in four different colours.	8+	Free
uTrack Pro	This virtual wall allows users to keep track of their day through the use of sticky notes.	8+	\$4.99