

PO Box 40400  
1010 E. 10<sup>th</sup> Street  
Tucson, AZ 85719

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Dear President Hicks and Governing Board Members,

Tucson Unified School District's Exceptional Education (EXED) Department has developed a plan to address technology needs for students with significant disabilities. This plan begins with the purchase of technology to be used in self-contained classrooms with students on IEPS. Schools have available technology for student use though often this technology is not available for students with disabilities due to the high demand by on the use of computers b grade-level teachers and the need for specific applications (Apps) that are not available for use on computers.

Students with disabilities must be able to use technology to access their education and be successful in life. The Arizona Department of Education (ADE) has adopted the Educational Technology Standards that address this issue for ALL students.

ADE's justification states:

The use of technology is altering the way that teachers are teaching and (all) students are learning. Arizona students must have regular opportunities to use these tools to develop skills that encourage creativity and innovation, communication and collaboration, research and information fluency, critical thinking, problem solving and decision making, digital citizenship, and personal productivity in the classroom and in daily life. Once these skills are obtained, students will be on the road to becoming lifelong learners and contributing members of a global technological society.

ADE requires all students to have access to technology to address the standards in the following six areas:

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Creativity and Innovation  
Communication and Collaboration  
Research and Information Literacy  
Critical Thinking, Problem Solving and Decision Making  
Digital Citizenship  
Technology Operations and Concepts

To accomplish this, the EXED department is making the commitment to provide the appropriate technology to students with disabilities.

The following Apps are currently being used by students in EXED. They provide extensive communication and literacy support for our students. The communication Apps are recommended by the Department of Developmental Delays (DDD) as being the most accessible for students. DDD uses these communication Apps on provide communication devises for students. Many of these apps are also recommended by the Arizona Department of Education (ADE) for accessibility and their ability to interface with multiple devices.

Please see the following list of Apps used by students with disabilities in TUSD. These Apps are only available for use with an Apple iPad.

Respectfully,

*Maura Clark- Ingle*  
*Director, EXED*

*Scott Morrison,*  
*Chief Technology Officer*

### **Apple Virtual Assistant and Speech Recognition: Siri**

- Dictation function is supported in *any* application that has a keyboard. This makes it fully integrated on most of the apps our students use.
- Only available through Apple
- Siri on the iPad provides the user with a touchscreen solution/option

**LAMP Words For Life™** is a full English vocabulary augmentative and alternative communication (AAC) language app that combines the power of the PRC Unity® language system with Language Acquisition through Motor Planning (LAMP™) principles and strategies. It provides a consistent motor pattern for words and a systematic way to develop communication skills. It is appropriate for anyone from beginning to advanced communicators to improve language skills. LAMP uses symbols for those who are not yet literate; however, those symbols are paired with text to support literacy development.

Three vocabulary levels within the app support language development from any skill level:

An introductory level features 83 core words that are touch activated. These words are the most frequently used in speech and can be used in a variety of settings and activities.

A transition level requires a second button to be pressed before hearing those initial 83 core words paired with additional vocabulary. This level allows for the learning of extended motor patterns without the visual distractions of the full vocabulary file.

The full vocabulary file gives the device user access to verb conjugations and word endings such as + s, + er, and + est. It includes 3,000+ words and allows for the customization of personalized vocabulary such as names, favorite foods, and favorite places.

### **TouchChat**

TouchChat HD is a full-featured communication solution for individuals who have difficulty using their natural voice. TouchChat provides both English and Spanish options in one app and provides a universal app supporting iPhone®, iPod touch® and iPad® and includes features that were previously only available in much more expensive dedicated devices. Words, phrases and messages are spoken with a built-in voice synthesizer or by playing recorded message. TouchChat also has a unique feature whereby one can simply tilt the device to make the message expand to fill the screen in large letters. This feature allows a person to communicate silently or in a noisy environment.

Text generated with TouchChat pages can be shared on Facebook, Twitter, Google+ or via iMessage and email. Generate a message, push on the text window and choose a service.

Text from other applications can be copied to TouchChat so that it can be spoken out loud. Also, text generated in TouchChat can be copied to other applications.

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### **GoTalkNow**

NOW combines the simplicity of GoTalks (Attainment's popular original AAC device) with the dynamic capabilities of an iPad. GoTalk NOW has all the essentials of an effective AAC app, like adjustable page layouts, customizable navigation, recorded and text-to-speech capabilities, and an included symbol set.

NOW offers three styles of communication pages: Standard, Express, and Scenes. In Standard pages, the action occurs when the location is pressed. In Express pages, recorded or text-to-speech messages build in a speech bar and play in sequence when the bar is pressed. Scene pages are built around a single photo or image. Plus, GoTalk NOW is a full-feature scanning app. GoTalk NOW participates in Apple's Volume Purchasing Program for Education in the United States.

### **Alexicom AAC**

Alexicom AAC for iPhone/iPad lets you use your iPhone, iPad, or iPod Touch as an augmentative communication device. Publish your Alexicom augmentative communication pages to your iPad, iPod, or iPhone and take them anywhere. Communication pages with text, images, and AT&T Natural Voices speech output can be downloaded directly from the Alexicom server or imported from your PC or Mac using iTunes. Once the pages are on your device, a data connection is no longer required. Alexicom is not device-dependent. Your pages can be accessed from any Mac, Linux, PC, iOS device, or other device with a standard web browser or app market.

### **Proloquo2Go**

Proloquo2Go's research-based Crescendo™ vocabulary puts core words front and center for easy access. Proloquo2Go is one of the few AAC apps that cover all users, from beginning to advanced communicators. Its research-based Crescendo™ vocabulary offers three levels: Basic Communication, Intermediate Core and Advanced Core. It's easy to switch levels within the same vocabulary while retaining your customizations. With Progressive Language feature you can hide buttons showing only the most important ones, and reveal vocabulary in a developmental sequence as communication skills grow. Proloquo2Go offers full grammar support that is customizable to the user's level. Use the many accessibility settings like scanning for users with fine-motor challenges or Apple's VoiceOver for users with vision impairments.

**These apps support reading, writing and notetaking. These apps do not appear to be available for Windows 10.**

### **IReadWrite-Recommended by ADE**

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This easy-to-use reading and writing App runs directly on the iPad with no Wi-Fi or 3G access necessary. It includes powerful support features that benefit struggling readers and writers of all

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ages with dyslexia, dysgraphia, or other learning difficulties. Documents can be printed on AirPrint compatible printers via the Export Menu.

Support features in iReadWrite include:

Text-to-speech

Word Prediction

Phonetic Spell Checker

Homophone and Confusables Checker

Dictionary

Picture Dictionary

Customizable Background and Text Colors

Choice of Voices and Fonts

Importing and Sharing documents

## **Pages**

Pages is a powerful word processor helps you create reports, resumes, and documents in minutes. Pages has been designed exclusively for the iPad, iPhone, and iPod touch with support for Multi-Touch gestures and Smart Zoom.

Advanced tools

- Add bookmarks to easily link from one part of your document to another
- Turn on change tracking to mark up a document as you edit it
- Use comments and highlights to share ideas and feedback with others
- Create footnotes and endnotes and view word counts with character, paragraph, and page counts
- Automatic list making and spellchecking
- Create and view impressive 2D, 3D, and interactive bar, line, area, and pie charts
- Add elegant mathematical equations using LaTeX or MathML notation
- Use Undo to go back through your previous changes

## **Read2Go**

Read2Go is an accessible eBook reader that makes reading Bookshare titles easy.

Bookshare is the world's largest accessible online library for people with print disabilities with over 345,000 titles. For questions on whether Bookshare is for right for you or for someone you know with a qualifying print disability, please refer to [www.bookshare.org](http://www.bookshare.org).

From within Read2Go, you can browse, search, download, and read books directly from Bookshare using your Bookshare membership, as well as read DAISY books from other sources. The app gives you full control over visual choices for font size and color, background and

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highlighting color, and text-to-speech preferences. Read2Go features word-by-word highlighting for multi-modal reading. The navigation tools allow even young students to use it effortlessly.

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The highlighted text-to-speech provides a wonderful opportunity for individuals with print disabilities to increase word recognition and improve fluency.

Features:

- Access the Bookshare collection directly from the app
- Browse, search and download books quickly and easily, including those with images
- Read words on the screen with synchronized text-to-speech (Read2Go audio on)
- Read with highly natural Acapela voices and navigate with VoiceOver gestures (Read2Go audio on, VoiceOver on)
- Read with Apple VoiceOver gestures and voice (VoiceOver on, Read2Go audio off)
- Read with many choices of font size, color and backgrounds, and no voices (Read2Go and VoiceOver off)
- Read with Braille displays connected via Bluetooth
- Save books into Read2Go so you can read anywhere
- Adjust font size up to 70 pts
- Adjust text-to-speech audio, either on or off for text-only or text-to-speech mode
- Adjust rate of audio
- View Table of Contents
- Set bookmarks
- Read from where you left off (auto-resume reading position)
- Support for all 6 levels of DAISY navigation built in to structure of book
- Supports DAISY 3.0 and 2.02
- Supports use of iTunes to transfer of non-Bookshare DAISY books to your device
- Supports “Open In Read2Go” for easy access to your books from the Bookshare website
- Educational institutions wishing to purchase 20 licenses or more can get a discount through the Apple Volume Licensing Program for Education

### **Prizmo- Recommended by ADE**

Prizmo is a universal photo-based scanner app that lets you scan and recognize text documents, business cards, and images, and then export them as PDF/Text, vCard, or JPEG/PNG. Prizmo relies on state-of-the-art technologies, like a highly accurate OCR, real-time page detection, and beautiful image cleanup. Prizmo is fully compatible with VoiceOver. It provides voice guidance to help position your iPhone/iPad when taking document pictures, and will find the text orientation automatically if it's turned left, right or upside down. Prizmo's quick capture mode provides a fast path from picture to speech synthesis for an improved workflow, and it provides a high-quality voice reader.

#### **\*\* Key Features \*\***

- Input Options: iPhone's camera, import from the Photo Album, import images or PDFs from other apps

- Image processing: rotation, crop, perspective correction, image cleanup (remove uneven lighting, paper texture)...

**\*\* Specific Document Processing \*\***

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- Text Documents - Use interactive text recognition and editing, and avoid retyping the text.
- Images - Capture, improve, and share any images (whiteboards, ads, paintings...)

- Improved OCR preprocessing for better recognition results
- Highly accurate OCR technology in 40+ languages
- No Internet connection required for image processing and performing OCR. No confidential data sent
- Text-to-speech available
- Many export options and formats: resulting image/PDF/vCard can be sent by mail, or to any other app like Dropbox, Evernote, Google Drive.
- Text translation available in 40+ languages (using Microsoft translation web service)
- Extensions: Crop & Cleanup, Capture Text, Read Text

The following assessment Apps are currently used by the EXED Department for student evaluation. Q-Interactive is the exclusive vendor for these evaluations. To complete a special education evaluation, the psychologist uses an iPad as the administrator and the student uses an iPad to record responses. iPads in each special education classroom will allow psychologists to evaluate more efficiently and with greater speed.

batteries			
	<b>CMS</b>	A comprehensive learning and memory test for children.	10 min
	<b>KTEA-3 Form A</b>	Individually administered battery that provides in-depth assessment of key academic skills.	136 min
	<b>KTEA-3 Form B</b>	Individually administered battery that provides in-depth assessment of key academic skills.	136 min
	<b>NEPSY-II</b>	The only customizable measure of neurocognitive processes.	51 min
	<b>WIAT-III</b>	Updated achievement test for use in a variety of clinical, educational, and research settings.	107 min
	<b>WISC V XBASS</b>	WISC V subtests for XBASS data entry using correct timing for long term retrieval subtests	102 min
	<b>WISC-V</b>	Assessment of children's overall intellectual ability and various specific cognitive domains.	144 min
	<b>WPPSI-IV Ages 2-3</b>	An innovative measure of cognitive development for preschoolers and young children.	42 min
	<b>WPPSI-IV Ages 4-7</b>	An innovative measure of cognitive development for preschoolers and young children.	84 min

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**Tablet Requirements:**

Q-interactive requires the use of two Apple® iPads® that connect via Bluetooth. The table below lists which iPad models can be used for the practitioner and client devices. The iPads must be using iOS 9 or higher and have 16 GB of storage. You can connect to the internet using either Wi-Fi or cellular networks

	Practitioner Device			Client Device		
	Not Supported	Supported*	Recommended	Not Supported	Supported*	Recommended
iPad	✓			✓		
iPad 2		✓			✓	
iPad 3		✓			✓	
iPad 4		✓			✓	
iPad Air			✓			✓
iPad Air 2			✓			✓
iPad Mini		✓		✓ <sup>**</sup>		
iPad Mini 2			✓	✓ <sup>**</sup>		
iPad Mini 3			✓	✓ <sup>**</sup>		
iPad Mini 4			✓	✓ <sup>**</sup>		
12.9 in iPad Pro			✓	✓ <sup>**</sup>		
9.7 in iPad Pro			✓			✓

\* "Supported" models will work with the Q-interactive application but may be more likely to experience performance issues. When purchasing new devices, "recommended" models will result in the best experience and have the longest life span.

\*\* Not supported because the psychometric impacts of displaying stimuli on a larger or smaller screen are unknown.

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