The Impact of Emerging Technology Trends on Individuals with Learning Disabilities

LDA 2017

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www.gatfl.gatech.edu
TFL AppFinder Categories

Search by:
✓ App Name
✓ Categories
  – Book
  – Education
  – Environmental Adaptations
  – Hearing
  – Cognition, Learning, Developmental
  – Navigation
  – Personal Care and Safety
  – Productivity
  – Communication
  – Therapeutic Aids
  – Vision
Making Informed Decisions
Get to Know Your AT Act Program

Program Directory - Find Your State Program

Select a State to View Contact Information:

Georgia

Tools for Life, Georgia’s Assistive Technology Act Program
Georgia Institute of Technology
College of Architecture
AMAC Accessibility Solutions and Research Center
512 Means Street, Suite 250
Atlanta, GA 30318

Program Coordinator: Carolyn Phillips

Phone: (404) 894-0541
TTY: (404) 894-8323
Fax: (404) 894-8323

Email: info@gatl.org
Website: http://www.gatl.gatech.edu

https://www.at3center.net/stateprogram
Find Us Online – watap.org

- Borrow a device
- Request a demo
- Find reused equipment
- Get a low interest AT loan
- Request an evaluation
- Find AT resources
- Learn about AT

Washington Assistive Technology Act Program
Human Activity Technology (HAAT) Model

- **Human**: represents the skills and abilities of the person with a disability
- **Activity**: a set of tasks to be performed by the person with a disability
- **Context**: the setting or social, cultural and physical contexts that surround the environment in which the activity must be completed
- **Assistive Technology**: devices or strategies used to bridge the gap between the person’s abilities and the demands of the environment

Developed by Cook & Hussey
The SETT Framework

S = Student/Skills
E = Environment
T = Tasks
T = Tools

Adapted from Joy Zabala  www.joyzabala.com
Emerging Technologies
Office 365 and OneNote

https://www.onenote.com/learningtools
Microsoft Surface Pro and Surface Book

- Windows 10
  - New and improved Internet Explorer
    - On-screen writing and highlighting features
  - Moveable tiles
    - Start Menu can be personally organized
  - Built-in accessibility
    - Speech-to-text
    - Narrator
    - Magnifier
    - High contrast
- Slim and has a USB port
- This pressure sensitive cover that doubles as a keyboard
Schools

• Cherokee County in Georgia
• Using One on One Computing
• OneNote Classroom
• Staying organized
  – Notebook/folder for each class
  – Links to documents, PowerPoints, videos
  – Each Student has own private folder that the teacher checks
  – Collaboration
• OneNote Learning tools
Microsoft OneNote

- Crosses all platforms
- Type, write, or draw with the free form feel of pen and paper
  - Use stylus or finger
- Search and clip from the web to picture ideas
- Brings students together in a collaborative space or can give individual support in private notebooks
# OneNote Learning Tools

<table>
<thead>
<tr>
<th>Feature</th>
<th>Proven Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced dictation</td>
<td>Improves authoring text</td>
</tr>
<tr>
<td>Focus mode</td>
<td>Sustains attention and improves reading speed</td>
</tr>
<tr>
<td>Immersive reading</td>
<td>Improves comprehension and sustains attention</td>
</tr>
<tr>
<td>Font spacing and short lines</td>
<td>Improve reading speed by addressing &quot;visual crowding&quot;</td>
</tr>
<tr>
<td>Parts of speech</td>
<td>Supports instruction and improves writing quality</td>
</tr>
<tr>
<td>Syllabification</td>
<td>Improves word recognition</td>
</tr>
<tr>
<td>Comprehension mode</td>
<td>Improves comprehension by an average of 10%</td>
</tr>
</tbody>
</table>
Learning Tools Toolbar

United States Geography

The study of Earth’s landforms is called physical geography. The seasons, the atmosphere and all the natural processes of Earth affect where people are able to live. Landforms can be mountains and valleys. They can also be glaciers, lakes or rivers. Landforms are sometimes called physical features. Geography is one of a combination of factors that people use to decide where they want to live.
Office Lens

• Free App
• Convert images to PDF, Word and PowerPoint files
• Save images to OneNote or OneDrive – Use immersive reader
Snip

• Free app through Microsoft Store for web browser
• Click and drag to capture any window or area of your screen
• Also can make notes or draw on your “snip”
• Send your “snip” as a URL or save it
Wearables
CCS Wearables Forecast

CCS Insight Global Wearables Forecast, 2016-2020

**Volume**
- 2016: 123 million
- 2020: 411 million

**Value**
- 2016: $14.0 billion
- 2020: $34.2 billion

**Device sales in 2020**
- Eyewear: 97 million
- Wristbands: 164 million
- Wearable cameras: 25 million
- Tokens, clip-ons & jewellery: 4 million
- Watches: 110 million
- Other: 2 million

February 2016

info@ccsinsight.com / @ccsinsight
Octopus Watch

• Indiegogo funded July 2016
• Icon based watch designed to teach kids (3+) concept of time
• $69

**WATCH**
It’s a watch. It gives the time with icons, making it the first clock that young kids can actually read and understand. **It links time to events.**

**SCHEDULER**
It’s a scheduler for children that *fosters responsibility, independence and self-esteem*. Parents can program reminders from their smartphone that pop up on the kid’s watch.

**ASSISTANT**
It's an assistant that helps parents prioritize expectations and stay consistent with daily routines. It gives tips and personal notes.
GlassOuse

• Helps people control electronics without using their hands.

• Based on your head movements, it moves the cursor onscreen. You bite on a blue extension to click, and it can go a week without charging.”

• [https://vimeo.com/158593763](https://vimeo.com/158593763)
QuietOn

• Indiegogo fully funded March 2016
• Wireless noise reduction; reduces noise to create silence
• $160
Mental Health
Breathe on Apple Watch

• The Breathe app guides you through a series of deep breaths, and it will remind you to take time to breathe every day.
• Choose how long you want to breathe, then let the animation and gentle taps help you focus.
• Measures and tracks anxiety to help you better understand behavior and prevent meltdowns.
Vidget chair

- Do you need to stop wiggling or fidgeting in your chair and sit still? With this, you don't have to! Plus, it's actually better for you.
- Being able to fidget in a classroom improves focus, inspires creativity, and promotes calmness.
- It creates a healthier learning environment by providing a safe and quiet way to release some of the endless energy kids have.
- Inspires kids to move naturally and celebrates imaginative play while learning!
Fidget Cube

- Kickstarter campaign
- Available February 2017
- Created by Antsy Lab
- $22
Pacifica

Pacifica App is available on iOS, Android & Web
Learn new techniques for reducing stress and anxiety
Customize to individual preferences
Cognitive
Amazon Echo

- Set reminders, timers, alarms
- Assist with Spelling, Math, vocabulary, language/translations
- Play trivia games for learning
- Reduce anxieties with music
Sonocent Recorder

• Capture high-quality recordings and annotate in real-time using colour markers, photos and text notes. With the Sonocent Recorder app you can take an accurate record of a meeting, lecture or class without having to write anything down.

• Instead of the single stream of information you get with standard audio, Sonocent Recorder splits your recording up into phrases which you can highlight, edit and delete as you record:

• It’s FREE!!!
Equil Smartpen 2

- Indiegogo Funded
- Real ink; real paper; digitized
- $119; shipping in early February 2017
Iris IRIScan Mouse Wifi Cordless Mouse Scanner

• A scanner at your fingertips!
• Just click on the scan button, swipe in any direction on a paper document and watch texts and images appear instantaneously on your computer screen thanks to the direct Wi-Fi transmission. Never retype any text again!
• Embedded OCR technology will turn any type of document, books, magazines, pictures into editable text. Simply drag and drop it into your favorite text editing application, edit and upload to the cloud in a click.
N2 Neo Smartpen

- Kickstarter funded
- NeoLab created smartpen that writes on paper and mirrors information on smart devices (iOS and Android)
- Cost?
Digit widget

• A tactile & exploratory way to learn about numbers, addition, and so much more! Through imaginative play, a child begins building the foundation for future STEM skills and has a lot of fun in the process.
Libby

- A new app to discover and enjoy thousands of ebooks and audiobooks from your public library.
- Designed to get people reading as quickly and seamlessly as possible.
- Just one tap away from unlocking the power of the written word from the public library.
- All you need is a library card to get started.
- It’s FREE!!!
Calculators

- New talking calculator app on iPhone and iPad.
- A comprehensively featured calculator that has become a favorite among adults and primary schools around the world.
- Wide range of uses- has large colorful buttons, optional high contrast, full VoiceOver support, and unique to this calculator; the option to use speech for answers, button names and formulas!
- Creator Adam Croser – has created many different talking calculator apps.
AVA

• Uses microphone to hear and shows word by word what is said
• Instant captions
• Basic Plan – Free For 5 hr/month
• $29.99
3D Printers and VR
Tiko 3D Printer

- Kickstarter Funded
- Accepting pre-orders shipping in Spring
- Non-proprietary filament
- Wifi Connectivity
- $199
• HoloLens

• A new collaboration between Pearson and Microsoft is using a self-contained holographic computer to develop “mixed reality” learning experiences for students.

Apps
IFTTT

- Free web-based service that allows users to create chains of simple conditional statements, called "applets",
- These are triggered based on changes to other web services such as Gmail, Facebook, Instagram, and Pinterest...
- IFTTT is an abbreviation of "If This Then That".
NoteTalker

- Voice Recorder App
- Allows for Audio Bookmarks
- Attach picture within audio
- Edit notes (separate from app)
  - Add, share, edit, attach
- PowerPoint
- Graphic Equalizer
- $6.99 for app
- $105.43 for Editor
Questions?
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