

Technology Solutions for Struggling Students **Dan Herlihy - dherlihy@juno.com**

QR Codes and More - combine Augmented Reality apps with creative writing!

- www.qrstuff.com - use to create QR Codes
- Delivr.com - create QR codes that you can change what the QR code does or plays without creating a new QR code

Augmented Reality iPad Apps - creative writing and discussion builders - all are free

- SpaceCraft 3D, Colarmix, Anatomy 4D, Elements 4D, Enchantium, Geometry 101, F-Sim Space Shuttle (4.99) Quiver - 3D Coloring App (free/in app purchases)

Websites for printing materials for augmented reality/3D apps

- Quiver - <http://quivervision.com/>
- Elements 4D - <http://daqri.com/elements4D-mobile/>
- Enchantium - there is a link in the article below to download the Enchantium pages

http://daqri.com/press_posts/daqri-brings-4d-toys-launch-enchantium/#.U7qggbGmU1I

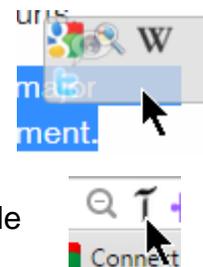
- SpaceCraft 3D - <http://www.jpl.nasa.gov/apps/images/3dtarget.pdf>
- Geometry 101 - <http://zientia.com/apps>

Tools for Accessibility

Extensions and Apps for Chrome

- iSpeakIt! - TTS extension
- Google Translate - extension - language translation of selected text or text you type into window
- Read & Write for Google - extension for web toolbar and for Google Docs with TTS, Picture Dictionary, Highlighters, text summarizer
- Snap & Read Universal - extension, read aloud selected text, simplify complex text on page
- Mercury Reader, Just Read, Read Mode - Chrome extensions to extract main article on a web page eliminating advertising, other unrelated material
- DyslexicReader - extension, changes text on web pages to Open Dyslexic font
- OpenDyslexic - (Chrome extension) change web page fonts to OpenDyslexic font
- Dyslexia Unscrambled - (Chrome extension) change web page fonts to OpenDyslexic font
- Co:Writer Universal, extension for Google Doc, word prediction and TTS
- Google Dictionary - extension
- Select Search - extension, use highlighter to highlight text, does a Google search for articles or images on selected text
- ScanQR - app, QR Code reader
- Kami - extension and app, open PDF files, type and annotate on
- Zoom - extension, zoom in or out on page for enlarged text
- Radium, Radiator - app, ePub (eBook) reader

- Google Research tools - tool in Google Docs under Tools menu, Research - to use right-click on word in document, choose Research, can also choose Cite and it will generate a citation for reference
- Ginger - grammar check (extension)
- Dynamic Language Tools - (extension) adds ability to select text on web page, pop up box allows you to choose Wikipedia article, Image search, clicking on the icon in the URL window allows you to choose Translate Selected Text - which will translate it directly on the page as shown below.
- Premier Chrome Toolbar - extension provides TTS, dictionary, article summary tools



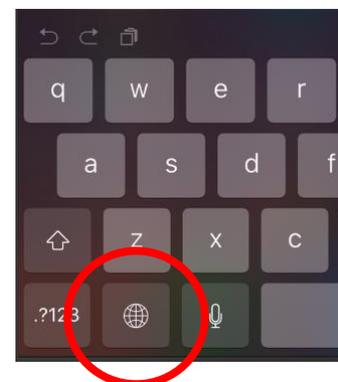
Alternate Keyboards

Depending on the device you are using, either iPads, Android tablets, Chromebooks, or computers, there are a variety of alternate on-screen keyboards with keys for typing math equations and formulas, enhance word prediction, color coded, different fonts and layout, as well as alternate designs for accessibility that you can use.

Downloading and Activating Keyboards

iPads

- Download keyboards from the iTunes app store to your iPad
- Open Settings on the iPad , choose General on the left, and Keyboard on the right
- Choose Keyboards, Add New Keyboard
- A list of any third party keyboards you have downloaded will be listed. Select one from the list. It will be added to the currently installed keyboards.
- To reorder the order that they will appear when cycling through them on-screen choose Edit at the top right. Choose the 3 bar icon at the right of the keyboard name and drag it up or down the list.
- To remove a keyboard select the dash (-) in the red circle while in Edit mode, choose Done when finished.



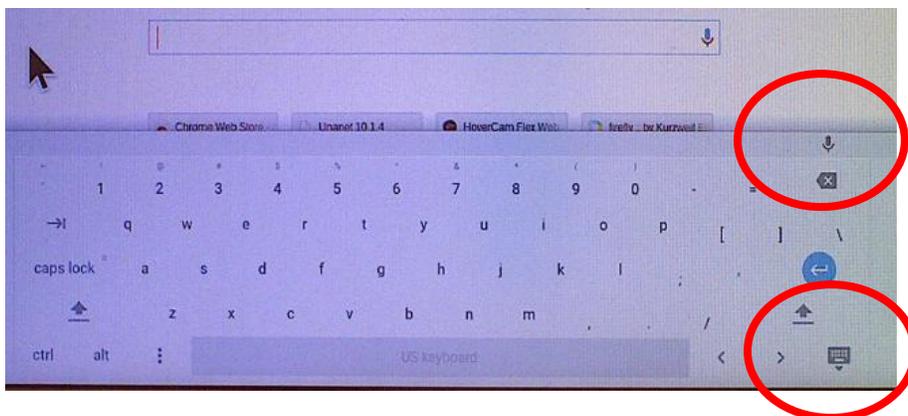
To Display the keyboard

Tap the globe symbol on the keyboard - usually displayed at the lower left. This will display the next keyboard in the order you arranged them.

Chromebooks

There is a default onscreen keyboard that can be found in the Accessibility listing. Choose the taskbar in the lower right, choose Accessibility. Next choose the On-screen keyboard.

Once chosen the keyboard will show up when your cursor is in a text field, such as a in a word processing document or search field. An icon will also show up in the taskbar. Clicking on it will display the keyboard, while clicking on the icon on the keyboard will hide it. A voice recognition button can also be found in the upper right on the keyboard.



To close down the keyboard altogether choose it again under Accessibility.

Scan and Read apps iPad Apps

Prizmo - Scanning, OCR and Speech (9.99 plus 2.99 for each voice) Can adjust what the OCR sees as text (editing the underlying text) This app runs OCR on the image *and produces a true PDF document* that PDF readers with TTS can now highlight the text and read aloud. App can also read text by choosing Export, then choose Read Text Aloud. Best choice for on the fly - snap, OCR and then read aloud of books, pages. Turn off Detect Page option in Settings. Works well sending the file to **Claro PDF Pro** (iPad app) allowing you to now type on the document and more.

Text Detective (free - listed under iPhone apps) takes picture, processes text then saves in History. Can then open, select text and have iPad Read Selected Text feature read aloud.

OCR Scanner with LeadTools - free, choose PDF, OCR to PDF, select text choose Speak

Text Grabber + Translator - (4.99) take picture, extracts text from image via OCR, does not save image as a PDF file so you lose images. Does a good job of scan/OCR, can read with TTS directly in app with iPad "Read Selected Text" option turned on, can translate to another language, export text.

Lectio (4.99) Scan, OCR, then reads aloud any word that you select (tap on) in the document

GoWorksheet (free for student player/19.99 for teacher creating) take picture of page, add fields for typing on lines, auditory support to worksheet, create drop down word lists

for multiple choice, drag and drop answers, more. Send worksheet to student player with teacher version.

Claro ScanPen (6.99) take picture of printed page, select text on screen, reads aloud

KNFB Reader - (99.00) excellent job of scan and read, removes images and formatting, fast and easy to customize.

Claro PDF Pro - TTS and annotating for PDF files, can export from Prizom into the app

Android:

TextGrabber & Translator (by AABBY, 4.99)

CamScanner HD (free/in app purchases - need to download OCR plug-in once installed)

TextFairy (free) OCR and text to speech

PDF Readers/Editors for Android - typing, draw tools for PDF documents

- iAnnotate PDF (free) TTS, type, highlight, draw
- ezPDF Reader (free/3.99 plus in app for voices) TTS, type, highlight, draw

Screen Readers for computers - read selectable text on screen

- Universal Reader - www.readingmadeeasy.com
- Natural Reader (free) www.naturalreaders.com
- Snap&Read - www.donjohnston.com
- Read & Write (Screenshot Reader) www.texthelp.com
- Image Reader (part of Kurzweil 3000 - www.kurzweiledu.com)

Using Document Cameras for Access to Print Materials

- www.thehovercam.com - Hovercam T3, Solo 8
Can run software in Chrome browser from www.hovercamflex.com
- iPevo.com - iZiggy HD, iZiggy HD Wireless
- Ladibug - <http://www.myladibug.com/>

Computer Software for reading print materials displayed under document cameras

- Snap&Read Universal - Chrome browser extension (computer/Chromebooks)
- Image Reader (component of Kurzweil 3000 - computers only)
- Screenshot Reader - (computers only) component of Read&Write

Using a Computer - options for the Hovercam T3 or Solo 8 document camera:

- Launch the Chrome web browser
- Connect Hovercam and launch software - go to www.hovercamflex.com (create free account first and log in) or www.thehovercam.com/livecam
- Place the printed page under the document camera
 - Open either:

- **Image Reader from Kurzweil 3000** - select text displayed on screen under the camera with Image Reader tool (in Read menu in Kurzweil 3000 or on Kurzweil Taskbar menu, Kurzweil will process and read aloud (www.kurzweiledu.com))
- **Read and Write Gold** - select the Screenshot Reader tool, select text on screen (www.texthelp.com)
- **Snap&Read** (Chrome extension) - choose select tool on toolbar, select text on screen (www.donjohnston.com)
- **Read&Write for Google** toolbar (Chrome extension) choose the **ScreenShot Reader tool**, select text displayed on screen

On a Chromebook you can connect the Hovercam, launch the online software from the Chrome browser - www.hovercamflex.com, then use either Snap&Read Universal extension by Don Johnston or the Screenshot Reader tool on the Read&Write for Google toolbar extension to select text in the document camera window to be read aloud.

Alternatives to Writing

- Book Creator for iPad - eBook creator can import images, video, record audio and video directly in app, add multiple text boxes for writing, drawing tools
- Explain Everything - record voice, add text, drawings, video, images, slides
- ShowMe Interactive Whiteboard - record voice, add text, drawings, images,
- Sway - add/record video, images, text, slides, grids, more

Android:

Creative Book Builder (3.99 images only), Book Creator for Android (1.99 - images, recorded sound and video)

Online eBook Creators (all are free)

- CAST Book Builder [Http://bookbuilder.cast.org](http://bookbuilder.cast.org)
- UDL Studio - <http://udlstudio.cast.org/>
- myebookmaker - <http://www.myebookmaker.com>

eBook Readers (free) export created eBooks then import into:

- iPad - iBooks, Gitden Reader, Voice Dream Reader
- Mac, PC, Chromebooks - Radium
- Android - Gitden Reader, Roxio MediaBook Reader (will play many multimedia features including invisible sound buttons added from Book Creator for iPad Chrome (Mac, PC, Chromebook) Radium

Writing Supports

iPad

- **Co:Writer** (19.99 - word processing with word prediction)
- **iReadWrite** (19.99 - word processing with word prediction & picture dictionary)
- **Clicker Connect** (30.99) create word banks for writing with picture supports
- **AbiliPad** (19.99) - create word banks for writing with picture support
- **Clicker Docs** (30.99) create word banks to support writing, word prediction

- **Clicker Connect** - (32.99) create word banks with picture support for writing
- **Sock Puppets, Chatter Pix** (recording voice to animation)
- **TouchCast** - (free) video, green screen effects, more

Online Supports

- **Class Journals** - <https://www.classjournals.com>
- **Formative** - goformative.com - free, upload quizzes as online test. Text, draw, multiple choice, short answer, watch students take test live
- **SeeSaw** - <http://web.seesaw.me> - quiz app, add photo, video, draw, PDF, notes - teacher creates room, generates QR code - app for iPad
- **Showbie** - www.showbie.com - upload assignments, students can answer using video, audio, text, images, upload files
- **Wunderlist** - www.wunderlist.com (apps for all devices) Online lists for homework, etc.
- **Actively Learn** - www.activelylearn.com - add interactivity to assignments, documents

Using Voice Recognition

- On Chromebooks - the On-screen keyboard found under Accessibility features.contains a voice recognition button, and also has word prediction to assist in writing.
- On a Macintosh turn on voice recognition, which can be then used in any program, in the System Preferences, Dictation & Speech. When activated, it will then place Start Dictation under the Edit menu in most programs to access.
- On a PC it can be found in the Control Panel under Ease of Access.
- On iPads Siri is on the on-screen keyboard to use voice recognition in any writing document
- Android tablets - can download keyboards such as "GBoard - The Google Keyboard", which has a voice recognition button on the keyboard or the Swiftkey keyboard.

Grammar Check

Ginger Page Writing App (free, iPad)
gingersoftware.com/grammarcheck - grammar check online
grammarly.com
 Grammar check in MS Word - go to Review tab, Spelling & Grammar

Research tools - add-ons and Citing Sources

<http://www.easybib.com/>
<http://www.citationmachine.net/>
 Brainpop clip and info on citing sources -
<https://www.brainpop.com/english/writing/citingsources/preview.weml>
<https://owl.english.purdue.edu/owl/resource/747/02/>
 BibMe - <http://www.bibme.org/>
 Citation Wizard - <http://21cif.com/tools/citation/>
 Citation Maker - <http://secondary.oslis.org/cite-sources/mla-secondary-citation>

iPad apps for citing articles

- Research Paper - Search & Download academic Article From Journal Library (free/1.99/3.99)
- GoScholar for Google Scholar App (4.99)
- My MLA (1.99) Guide to citing works
- EasyBib: Automatic Bibliography Generator and Citation Machine (free)
- RefME - Citations Made Easy (free/in app purchases)
- MLA Writer - MLA Style Writing Tool (5.99)
- iSource MLA (2.99) iSource APA (2.99)

Citation apps for Chrome

- Lazy Scholar
- Google Scholar Button - works with Google Scholar
- Apogee - Citation Creator
- Google Docs - using Explore (formerly research) feature under Tools menu will cite information captured and brought in to documents
- Clipular - Research, save & share screenshot (Chrome app)
- Online Research Tool (Chrome app)
- Quick Research (Chrome extension)
- Cite This For Me: Web Citer (Chrome extension)

Research Supports

- Instagrok (apps for all platforms, can simply use the website - www.instagrok.com)
- Google Explore tool, under Tools menu in Google Doc
- Google Scholar - <https://scholar.google.com/>
- Colwiz research Companion (Chrome extension)
- Colwiz Research Companion - extension for Google Docs
- Scrible - Chrome app and extension for annotating, bookmark, saving web pages, <https://www.scrible.com/>
- Scrible Edu - citation, bibliography, Google Docs integration
- Online Research Tool (Chrome app)
- Quick Research (Chrome extension)

Apps and Programs with Highlighters these programs have highlighters allowing student to highlight text, then extract highlighted text to a new document

- Kurzweil 3000, firefly www.kurzweiledu.com - both the installed program and online component
- Read&Write - www.texthelp.com
- Read&Write for Google -Chrome extension
- MS Word - highlighted text can be extracted out of a document - see directions at http://wordribbon.tips.net/T009232_Collecting_Highlighted_Text_Selections.html
- <https://www.sumnotes.net> - upload file,extract highlights from PDF files
- Voice Dream Reader - iPad app, can highlight, extract highlights to Google Drive as a text file

Reduce Text Complexity, Leveled and Text Summary Tools

- **Snap&Read Universal** - Chrome Extension (subscription)
- **Rewordify.com** - can create dictionaries, copy/paste in copied text, in Settings can set level of complexity
- **Text Compactor** - <http://textcompactor.com/> - paste text, drag slider to summarize
- MS Word - Tool called AutoSummary tool found under Customize Quick Access Toolbar on top left - in the drop down menu choose More Commands, change Choose Commands from: to All Commands, scroll down and search for AutoSummary Summary Tools - add it to the toolbar.
- Skimzee - Chrome extension to summarize text on web pages

Text Summarizing

- Snap&Read Universal (extension- subscription based) for Chrome browser
- Read& Write for Google (extension) for Chrome browser
- Premier Chrome Toolbar (Chrome extension, subscription based)
- MS Word - called Auto Summarize in older versions of Word under the Tools menu, called AutoSummary Tools as an add-on to the Quick Access toolbar in newer versions

Online

Autosummarizer.com

Readworks.com

Rewordify.com

Newsela.com- free, leveled current events articles

Simplish.org

TextCompactor.com

tools4noobs.com/summarize

<http://www.tieredwebpages.com/> (Jen: The Tiered Web Page Generator from Knowledge by Design)

Textalyser.net

summarizethis.com

onlinesummarizer.com

<https://www.choosito.com/> (online search for leveled articles on web by subject area, topic, more - free)

Homework

- **My Homework Reminder** - Chrome extension, syncs across Chrome on computers or Chromebooks
- **Google Calendar** - sharing the calendar allows students to access homework assignments listed on calendar
- **myHomework Student Planner**
- **Wunderlist** - online and apps for all platforms, free, add assignments and lists, can share. Once an assignment or task is completed can check off the list - and the educator sharing the list can observe what has been completed, add to, reorder or prioritize.

Poetry

iPad Apps

- Poetry Creator (free)
- Poetry Magnets (free)
- Instant Poetry (1.99)

Online Poetry Writing

http://teacher.scholastic.com/writewit/poetry/poetry_engine.htm

LiveBinders - <http://www.livebinders.com/play/play?id=45372#anchor>

http://www.readwritethink.org/files/resources/interactives/diamante_poems_2/

<http://magneticpoetry.com/pages/play-online-1>

<http://www.poemofquotes.com/tools/poetry-generator.php>

<http://www.rif.org/kids/readingplanet/gamestation/poetrysplatter.htmv>

Brainstorm

- Popplet Lite, Inspiration Maps Lite (iPad apps)
- Cadoo - Chrome app or online at <https://cadoo.com/>
- Bubbl.us (online)
- LucidChart - Chrome, iPad,
- MindMup - Chrome, iPad

iPad Graphic Organizer/Mind Mapping apps

- iThoughts HD
- SimpleMind+
- Idea Sketch
- Inspiration
- XMind

Android Graphic Organizer/Mind Mapping apps

- Padlet
- MindMeister Web
- Mindomo
- SimpleMind Free
- IdeaSketch

Timeline

- Capzles - <http://www.capzles.com/> - online visual timeline creator
- Interactive Timeline Creator - can save, work on later, print, save as PDF, free
<http://www.readwritethink.org/files/resources/interactives/timeline/>
- Timeline Creators
http://www.teach-nology.com/web_tools/materials/timelines/
Can create Horizontal – up to 6 events, Vertical up to 9 events time line creator

Signing Science & Math online ASL Dictionaries - use with Internet Explorer

<http://signsci.test.terc.edu/index.html>

<http://signsci.test.terc.edu/SLSD.htm>

Symbol Support

News2You, Unique Curriculum - www.n2y.com

Symbol World - <https://symbolworld.org/>

Boardmaker, Boardmaker Online www.mayer-johnson.com

SymbolSupport - iPad app for writing with symbol support

Picture/Video Schedulers

iPad - FTVS HD - First Then Visual Schedule, Video Schedule, Picture Scheduler

Android - Supportive Schedule, First Then Visual Schedule (from Amazon)

Digital Pens

C-Pen ReaderPen - www.scanningpenshop.com/en/c-pen-reader.html

Other models available on Amazon.com

Pen scanner - swipe pen across page, lift up from page, reads aloud text. Can scan entire document for reading back, scan to computer

LiveScribe 3 Pen for iPad or Android

- Create and export the Pencast as a video
 - Can save video or Pencast to Google Drive
 - Can play video back on any iPad, or export the Pencast to Google Drive and choose "Open in" from drive to the Livescribe+ app.
 - Can open Pencasts on computer using online player - www.livescribe.com/player
 - Can play video on Chromebooks directly from Google Drive
 - Can post MP4 video from LiveScribe to YouTube, then add link as a Tile in Symbaloo - set tile to Embedded (opens in Symbaloo) for easy access.

LiveScribe Pulse and Echo Pens (saving to computer) www.livescribe.com

- Can print pages from any application onto the Livescribe paper and create interactivity by adding audio hotspots
- Can export and open Pencast on iPad in Livescribe+ app
- Can export a page as a Pencast with audio/video (of drawings and writings) to Google Drive (save to computer then upload to Drive), then open with the online player - www.livescribe.com/player - open the online player on a Chromebook, select the Choose Your Livescribe PDF button, choose Google Drive, My Drive to open file