Center on Technology and Disability
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App Matrix for Supporting Math Skills for Diverse Learners

iOS, Google & Math Resources

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App Matrix for Supporting Math Skills for Diverse Learners, iOS,Google & Math Resources

For students with learning disabilities, there are a wide range of tools and apps available for help in understanding math lessons and content. Children often thrive when given the opportunity to have math experiences that incorporate multiple means of representation. Apps, tools, and assistive technologies included in this matrix support foundational math skills, as well as more complex math skills in areas such as Algebra, Geometry, word problems, fractions, math drills, and more.

Developed by AT Specialist, *Diana Petschauer, M.Ed., ATP.*, this handout was shared during the CTD webinar, *AT and Apps to Support Math for Diverse Learners!*. This comprehensive matrix of Apps provides educators and families with an overview of major features of available Apps support access to math for diverse learners.

**iOS: Remember Built-In (Free) Accessibility features:

(iPad, iPhone)

Apple iOS Accessibility Page

- Speak Selection and Speak Screen
- Typing feedback
- Zoom
- Invert Colors, Display Accommodations
- Magnifier
- Assistive Touch
- Guided Access
- QuickType, Dictation and Third Party Keyboards: Keedogo, Keeble, Read&Write
- VoiceOver
- Switch Control

  - This iOS 11 playlist on YouTube shows these features in action. The videos are closed captioned for accessibility. (Luis Perez, https://luisperezonline.com/)

App		iOS (Apple) as of 2018	Google (or Android) as of 2018	Comments/ Features
ClaroPDF Pro		yes	Android	Access to digital handouts, worksheets, text to speech and editing/ complete worksheet using word prediction, speech to text, handwriting. Share with Google Drive, Print, email.
GoWorksheet Maker		yes	N/A	Another option for worksheets with the ability to add word banks and audio/ verbal answers.
Panther Math Paper		yes	N/A	Type math work using large print high contrast keys with numbers and symbols for varied types of math including advanced math options.

Notability		yes	N/A	Combine audio synced notes with visuals to provide support for comprehension and retention for math lessons, take notes in math class and go back to review later. Excellent for 1:1 lessons with an educator.
Math Drills		yes	N/A	Foundational math lessons with visuals such as numberlines.
Montessori Place Value		yes	N/A	Audio and digital support for place value lessons
Long Division Touch		yes	N/A	Touch math step by step through division lessons
Fractions and Equations, by Braining Camp		yes	N/A	Video lessons with whiteboard interactive features and digital manipulatives.
Coin Math and counting coins and counting money		yes	N/A	Counting coins, making change, spending money
ParkMath HD		yes	N/A	Count, add, subtract, patterns, balance, early learning
Bugs and Bubbles		yes	N/A	Calm math lessons with bugs and bubbles, sort, patterns, counting
MyScript calculator		yes	N/A	Use handwritten math to convert to text and calculate
Photo Math		yes	N/A	Take a photo of math to see step by step calculation, homework support
Quick Graph		yes	N/A	Digital 3-D graphing
Times Table		yes	N/A	Digital times table with visual support
Clockwork Puzzle		yes	N/A	Telling time with clock puzzle pieces

		yes	N/A	Calculate cost of items after sales price, percentages, tax
Sale Saver		yes	N/A	Calculate cost of items after sales price, percentages, tax
Algebra Touch		yes	N/A	Step by step algebra solving problems
Math vs Zombies		yes	N/A	Math drills, foundational math skills, child cartoon zombies
Division for Kids		yes	N/A	Step by step division problems
Geometry Pad		yes	See GeoGebra	Digital geometry lessons and tools
Splash Math fourth grade		yes	Google	Math lessons with characters and prizes, space theme
Numberline		yes	N/A	Digital numberline
WOLFRAM alpha Calculus		yes	N/A	Digital Support with Calculus
Writing Wizard-Numbers		yes	N/A	Practicing formation of numbers
Thinking Blocks Word Problems		yes	N/A	Support with word problems and sorting important information to solve
Algebra Explained		yes	N/A	A teenager explains algebra lessons accurately with humor and digital support
Number Rods		yes	N/A	Digital version of cuisenaire rods

Google Chrome Apps, Extensions, Forms & Add-Ons			All Chrome Apps & Extensions are Found in the Chrome Web Store. They can only run on the Chrome Browser. *(Laptop, Chromebook, Surface, Windows Tablet)*
Google Forms	yes	Google	Create accessible digital math assessments
Equatio, extension	Yes, Equatio Mobile	Google	Digital accessible math using speech to text, handwriting conversion to text, math prediction, in various environments including Google Docs, forms, and microsoft word.(Available for Mac/ Windows also)
One-Click Timer extension	No (But see Time Timer)	Google	Large, red, visual and audio timer. Up to 60 minutes
Progress Bar Timer, App	no	Google	Counter, Clock, Timer: This app allows you to create general purpose progress bars. Progress bars are useful for tracking various types of progress.
GeoGebra, App	yes	yes	Support with geometry and Algebra, also web based
Desmos Graphing Calculator, App	yes	yes	Digital Graphing calculator on screen, works with equatio
Google Keep, App & Extension	yes	yes	Math homework reminders

GeoBoard, Pattern Shapes, Number pieces, Money pieces, Fractions, By the Math Learning Center		yes	Google and Web	Digital support with manipulatives, also available on the web in any browser on any device-Math Learning Center
Math Aliens, App		no	Google	Math arcade games, mimics old Atari games
Numberline, App		yes	yes	Digital Numberline with math problems, visuals, negatives, decimals, fractions
Monster Math, App		no	Google	Digital Math flashcards with cartoon monsters
Math Studio, App		no	Google	Digital support for solving various math, math encyclopedia
Splash Math, App		yes	yes	Interactive math lessons for various ages
Multiplication Table, extension		no	Google	Quick glance multiplication table
Charts, Add-On		no	Google	Add digital graphs to docs, At the top menu of Google Docs, Click Add-On, Get Add-Ons

Web Resources:

Math Playground: http://www.mathplayground.com/

Math Type Software: http://www.dessci.com/en/products/mathtype/

Math Talk software: http://www.metroplexvoice.com/

Equatio Videos:

Equatio Mobile: https://www.youtube.com/watch?v=CZ6eu4ZO7ok

Equatio Math Space: https://www.youtube.com/watch?v=pXAONJQW_o0

Equatio for Docs: https://www.youtube.com/watch?v=kQc-T4kPlTI

APH Store-Tactile Graphics and Alternative Math Tools:
http://shop.aph.org/webapp/wcs/stores/servlet/Category_413A10B_10001_11051_20816_-1_20815

Sensational Blackboard: http://www.sensationalbooks.com/products.html#blackboard

Math Pickle: http://mathpickle.com/organized-by-grade/

Desmos Classroom Activities: https://teacher.desmos.com/

DragonBox: http://dragonbox.com/