

Reading for meaning is a complex skill that needs to be taught. Once mastered, this skill opens opportunities for a lifetime of learning. Yet everyday, students in ALL grades and ALL subjects struggle with reading. The student may have an identified disability affecting reading, be an English Language Learner, or may have an unidentified challenge. Traditional text may be a barrier to these students as well as those with visual or physical challenges.

What you may be noticing...

- Reading below grade level
- Avoiding reading tasks
- Losing their place while reading
- Difficulty sounding out or recognizing words
- Not understanding what was read
- Challenges with spelling and writing
- Difficulty connecting prior knowledge
- Easily distracted while reading
- Reading tasks taking longer to complete
- Guessing, skipping words, & replacing words

WRITING

Writing is an essential literacy skill and key to academic achievement across the curriculum. The writing process can be challenging because our brains work in a non-linear way, with thoughts and images floating around. Our expectation is that students learn how to organize their thoughts and ideas, write them legibly (handwriting & keyboarding), and use correct grammar, spelling, and punctuation.

What you may be noticing...

- Legibility challenges, incorrect letter formation
- Too light or too heavy pressure of pencil/pen
- Uses simpler sentences than when speaking
- Unusual grasp of the pencil
- Difficulty with spacing between letters & words
- Hand fatigue, writing slowly/painstakingly
- Avoiding writing tasks
- Erasing often, trouble staying within lines
- Trouble organizing ideas & information
- Seems overwhelmed with writing tasks

www.openaccess-ca.org/at-flipkit

<http://www.joyzabala.com/>

<http://www.wati.org/>

<https://qiat.org/>

<http://aem.cast.org/>

<https://www.atia.org/>

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DIGITAL TOOLS & Supports *Guide*

SAP
STUDENT
ACCESS
Planning

The intended use of this guide is to assist the student's team during the Assistive Technology consideration portion of the Student Access Planning (SAP) process.

Building mathematical skills is not only for next generation scientists and engineers. Students struggling with math may have challenges with basic life skills such as paying bills, creating budgets, and arriving to work on time. Math skills can affect which careers are within reach and struggles can reduce career options which a student may otherwise be interested in pursuing. Ultimately, math helps us develop skills for all sorts of problem solving.

What you may be noticing...

- Legibility issues, lining up numbers
- Trouble recognizing numbers & symbols
- Difficulty recalling math concepts
- Difficulty estimating, telling and managing time
- Challenges with thinking flexibly
- A negative mindset about math
- Distraction or lacking focus & interest
- Easily frustrated, absences, missing homework
- Challenges with game rules and keeping score
- Becomes anxious about tests & quizzes

EXECUTIVE FUNCTION

Executive Functions (EF) are a complex set of cognitive processes working together to help us with organizing, planning, strategizing, recalling details, and paying attention. EF support impulse control, emotional control, and mental flexibility. EF dysfunction can negatively impact students as they advance through school and the expectations of completing work independently increases.

What you may be noticing...

- Struggle to keep track of & turn work in on time
- Trouble thinking before acting
- Procrastination, task-initiation
- Missing/lost assignments
- Difficulty persisting during challenges
- Following directions is difficult
- Forgetting the steps in a process
- Difficulty with self-reflection
- Resistant to make edits to a final product
- Messy desk & papers, can't find materials

READING

Low-No-Tech, & Built-in Tools

Reading Guides ■ Sticky Notes
Page Holder ■ Slant board
Highlighter tape

Chrome/ChromeOS: Spoken feedback & ChromeVox, high-contrast, magnifier & zoom, increase cursor, high-contrast mode

Win/Microsoft: Text-to-speech, read-mode, zoom, increase cursor, color filters, Tell Me, magnifier, Seeing AI, Immersive Reader

iOS/OSX: Speak selection, speak screen, zoom, safari reader, summarize

Digital Tools & Resources

Digital Text, Audiobooks, Multi-Sensory Literature & Content

- Bookshare >>>
- LearningAlly >>>
- Gutenberg >>>
- StorylineOnline >>>
- Epic! >>>
- ReadWorks >
- TweenTribune >
- DoGoNews >
- Unite for Literacy >
- Simple English Wikipedia >

Text-to-Speech (TTS)

- Read&Write >>>
- Natural Reader >
- Immersive Reader (Win)
- Voice Instead

Optimize Visual Information & Reduce Clutter

- Mercury Reader >
- Easy Reader >
- Read&Write >>>
- Visor >
- Safari Reader >>
- Immersive Reader (Win)

Comprehension Support

- Highlighter Extension for gDocs >
- Liner Highlighter >
- My Dictionary >
- Read&Write vocabulary tools >>>
- Immersive Reader vocabulary tools (Win)
- Insert Learning >

Authoring Tools

- Book Creator >>>
- Clicker Writer >>>
- Clicker 8 >>>
- Book Templates for Google Slides >
- Tarheel Reader >

WRITING

Low-No Tech, & Built-in Tools

Pencil grip ■ Slant board ■ Wikki Stix
Wrist/Mouse supports ■ Adapted paper
Graphic organizer ■ Adapted mouse
Sticky notes ■ Letter stamps
Dictionary ■ Dry-erase board

Chrome/ChromeOS: Voice typing, spell check, dictionary, thesaurus, keyboard shortcuts

Win/Microsoft: Check document: spell check, grammar check, word count, read aloud, word/text prediction, keyboard shortcuts, sticky-keys

iOS/OSX: Dictation, Siri, predictive text, keyboard shortcuts, sticky-keys

Digital Tools & Resources

Legibility Support

- Read&Write >>>
- WordQ >>>
- DragonAnywhere >>>
- Word Wizard >>
- Duxtera >>
- Voice Typing in gDocs >
- Dictation in iOS >>

Supporting Composing & Organizing

- Drawing in gDoc > (graphic organizer)
- TextHelp Study Skills >
- Notability >>
- EasyBib >
- Google Keep >
- Translate tool >

Annotating Worksheets & PDFs

- KAMI >
- Read&Write >>>
- SnapTypePro >>
- GoWorksheet Maker >>

Supporting Participation & Digital Skill Building

- Student Response system >>>
- Google Forms >>>
- Keyboarding Without Tears >>>
- Type2Learn >>>
- Typing.com >
- TypingClub.com >

MATH

Low-No Tech, & Built-in Tools

Adapted graph paper ■ Wikki Stix
Manipulatives ■ Multi-use slant board
Dry-erase graph board ■
Giant display calculator
Talking calculator ■ Mathline/Abacus

Chrome/ChromeOS: Insert equation, insert table, insert shapes, insert special characters, Google Sheets

Win/Microsoft: Insert equation, insert symbol, insert chart, insert shapes, insert special characters, Microsoft Excel

iOS/OSX: Insert equation, insert symbols, grapher, insert table, Numbers

Digital Tools & Resources

Legibility Support

- EquatIO >
- ModMath >>
- DAUM >
- IssieCalc >>
- Insert Equation in Google Docs
- Dexteria >>

Concept Building & Virtual Manipulatives

- Illuminations >
- Math Learning Center >>>
- DESMOS >>>
- Khan Academy >>>
- Khan Academy Kids >>>
- Issie Dice >>
- Montessori Numbers >>
- TedEd >
- Vivos >
- Math Glossary >
- Xtra Math >>>
- Dollars & Cents >>



> Chrome/Web
>> iPad
>>> Multi-platform

EXECUTIVE FUNCTION

Low-No Tec, & Built-in Tools

Graphic organizers ■ Planners
Checklists ■ Adapted binder ■ StickyNotes
■ Flipbooks ■ Charts ■ Timers ■
Progress charts ■ Rubrics ■ Templates
Scaffolds ■ Clear goals & Objectives

Chrome/ChromeOS: Google Calendar, highlight tool, drawing tool to create mind maps/graphic organizers

Win/Microsoft: Outlook, OneNote

iOS/OSX: Calendar, screenshot markup

Digital Tools & Resources

Organizing & Prioritizing

- Google Keep >
- Google Calendar >
- Timer Extension >
- Simple ToDo List >
- ChoiceWorks >>
- Time Timer >
- Picture Scheduler >>>
- Class Dojo >>>
- ThingLink >>>
- Padlet >>>

Flexible Thinking

- SpottIt!
- Story Cubes
- Jenga
- Quiddler
- Rummikub
- Max

Working Memory

- GoNoodle >>>
- My Homework Reminder >
- Google Keep >
- Mnemonics
- Simple ToDo List >
- Digital Charts & Graphics

Self-Monitoring & Self-Checking

- Student Data Binder
- Google Sheets >

More Resources

- SMARTS Curriculum: smarts-ef.org
- Understood.org
- ClassroomScreen.com
- <https://create.nyu.edu/projects/smartsuite/>