

LOW AND HIGH TECH ACCESSIBILITY FEATURES FOR ELA AND MATH

The impacts of COVID-19 make it essential for teachers and leaders to prepare for both in-person and virtual learning experiences during the 20-21 school year. SELF wants to ensure you have the tools to provide access to Tier 1 instruction in all settings. In this toolkit, you will find resources to support Tier 1 accessibility in a low tech and high tech capacity.

CONSIDERATIONS

We may encounter rolling shutdowns making Distance Learning essential. Consider using the tech options during in-person instruction in order to prepare students for virtual learning. Many of these tools can be utilized to provide accommodations but should also be considered as a best practice to engage all learners.

Teachers should become familiar with these tools before introducing them to students.

GUIDING QUESTIONS

All subjects:

- 1 How can I support students with accommodations virtually?
- 2 How can I provide visual representations in my lessons?
- 3 How can I help students organize their thoughts?
- 4 How do I provide all students access to the Tier 1 curriculum?



GUIDING QUESTIONS CONT.

Reading:

- 1 What physical and virtual organization tools exist for reading comprehension and writing?
- 2 How do I provide close reading support to all students?
- 3 How can I provide read aloud using technology?
- 4 How can you build or activate background knowledge about the text?
- 5 How can I support vocabulary acquisition for all students?
- 6 What are alternative modes for students to demonstrate their thinking?

Writing:

- 1 How can I provide speech to text?
- 2 How can I support students with spell check?
- 3 How can I support online text annotation?



GUIDING QUESTIONS CONT.

Math:

- 1 How can I make writing equations in a virtual setting more accessible?
- 2 How can I provide manipulatives virtually?
- 3 What graphic organizers are available for math?
- 4 How do I implement manipulatives in my classroom?

ELA TOOLS

GRADE

LOW-TECH

HIGH-TECH

K-3

Printable Graphic Organizers:
[Education Place \(English & Spanish\)](#)
[ThinkCERCA \(Reading & Writing\)](#)

Chunking Text:
[Accommodation Central](#)

Sentence Stems:
[Accommodation Central](#)

Printable Vocabulary Organizers:
[Reading A-Z](#)
[Building RTI](#)

Graphic Organizers:
[ReadWriteThink](#)
[MindMup](#)
[Storyboard That](#)

Chrome Extension:
[Google Read&Write](#) (read aloud and fluency practice-free, & more features with subscription)
[Video about Google Read&Write](#)
[Voice Typing in Google Docs \(2nd-3rd\)](#)

Presentation of Work:
[SeeSaw](#)

ELA TOOLS CONT.

GRADE

LOW-TECH

HIGH-TECH

3 +

Printable Graphic Organizers:
[Education Place \(English & Spanish\)](#)
[ThinkCERCA \(Reading & Writing\)](#)

Printable Vocabulary Organizers:
[Building RTI](#)

Chunking Text:
[Accommodation Central](#)

Preview Text:
[Accommodation Central](#)

Guided Notes:
[Intervention Central](#)

Chrome Extension:
[Google Read&Write](#) (read aloud and fluency practice-free, more features with subscription)
[Video about Google Read&Write](#)
[Scribe](#) (annotating text and websites)
[Video on Scribe](#)

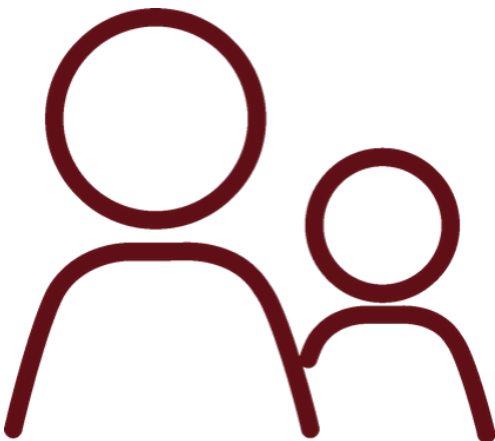
Graphic Organizers:
[ReadWriteThink](#)
[MindMup](#)
[Storyboard That](#)

Discussion:
[Vocaroo](#)
[Flipgrid](#)
[VoiceThread](#)

Speech to Text:
[Speechnotes](#)
[SpeechTexter](#)
[Voice Typing in Google Docs](#)

Presentation of Work:
[Google Slides](#)
[Prezi](#)
[Storyboard That](#)
[Screencastify](#)

SELF Webinar:
[Supporting Students on Google Platforms Webinar](#)



MATH TOOLS

GRADE

LOW-TECH

HIGH-TECH

K-3

Ten Frames and Dot Talks:

[K-5 Math Teaching Resources](#)
[Helping with Math](#)

How to Implement Math Manipulatives:

[Stress Free Math for Kids](#)

Printable Place Value Charts:

[Acentral Education](#)

Printable Number Lines:

[Helping with Math](#)

Printable Charts & Graphic Organizers:

[Teacher Vision](#)

Virtual Manipulatives:

[Math Playground](#)
[Didax](#)

[Glencoe](#) (flash player needed)

[Virtual Manipulative Reference Sheet](#)

[Virtual Accessibility Features Webinar](#)

3+

Scaffolding Multi-Step Problems:

[Accommodation Central](#)

Say, Ask, Check Strategy:

[Intervention Central](#) (cognitive and metacognitive support)

How to Implement Math Manipulatives:

[Stress Free Math for Kids](#)

Printable Charts and Graphic Organizers:

[Teacher Vision](#)

Chrome Extension:

[EquatIQ](#) (speech to text, draw equations vs type equations)

[Video about EquatIQ](#)

(free version and subscription version)

Virtual Manipulatives:

[Math Playground](#) (K-6)

[Didax](#) (K-6)

[Glencoe](#) (K-8)

Calculators:

[Desmos Graphing Calculator](#)

[Desmos Four Function Calculator](#)

[GeoGebra Scientific Calculator](#)

[GeoGebra 3D Calculator](#)

SELF Created Resources:

[Virtual Manipulatives Reference Sheet](#)

[Virtual Accessibility Features Webinar](#)