



Assistive Technology

Winchester Public Schools

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AGENDA

- Introductions
- What is Assistive Technology?
- What Assistive Technology do we have in Winchester?
 - What iPad apps and Chrome extensions are students using?

**"For people without disabilities,
technology makes things easier. For
people with disabilities, technology
makes things possible."**

Speech Recognition

GPS

Siri

Alexa

curb cut

Understanding Assistive Technology Simply Said...

- <https://www.youtube.com/watch?v=DB9pKkZoJDc>



Massachusetts Program

MassMATCH is the Commonwealth of Massachusetts's initiative to Maximize Assistive Technology (AT) in Consumer's Hands. It is one of the state-level AT Act programs in the United States. Its mission is to promote the use of AT and AT services to enhance the independence of people with disabilities.



Turn on Closed Captions

Research has demonstrated that closed captions help students with word identification, word meaning and attention to text.



<http://www.readingrockets.org/article/captioning-support-literacy-0>

Did You Know...?

- Assistive technology is used by individuals with disabilities in order to perform functions that might otherwise be difficult or impossible.
- IDEA requires that AT be considered for each child receiving special education services.
- Assistive Technology solutions range from low-tech to high-tech.

Assistive Technology and the IEP

“The IEP Team shall — (v) Consider whether the child needs assistive technology devices and services.”

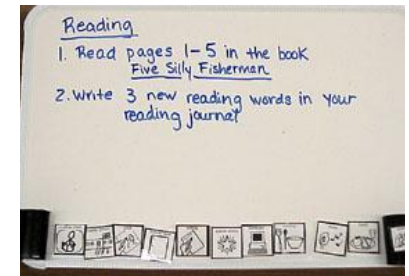
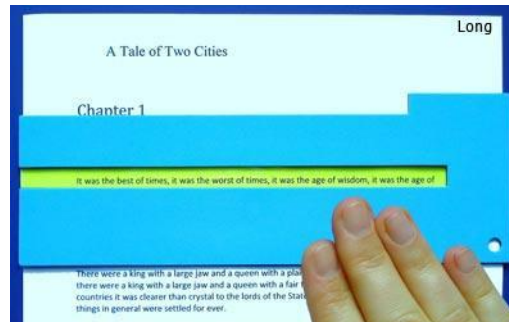
Check all that apply.

General Considerations

- | | | |
|--|--|--|
| <input type="checkbox"/> Adapted physical education | <input type="checkbox"/> Assistive tech devices/services | <input type="checkbox"/> Behavior |
| <input type="checkbox"/> Braille needs (blind/visually impaired) | <input type="checkbox"/> Communication (all students) | <input type="checkbox"/> Communication (deaf/hard of hearing students) |
| <input type="checkbox"/> Extra curriculum activities | <input type="checkbox"/> Language needs (LEP students) | <input type="checkbox"/> Nonacademic activities |
| <input type="checkbox"/> Social/emotional needs | <input type="checkbox"/> Travel training | <input type="checkbox"/> Skill development related to vocational preparation or experience |
| <input type="checkbox"/> Other The team should consider how the student's disability affects participation in the life of the school—extracurricular and | | |

Low Tech Assistive Technology

- Low cost
- Easy to use
- Effective



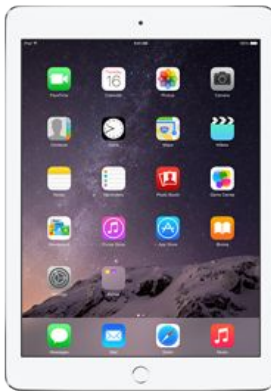
Mid Tech Assistive Technology

- Electronic/Battery Operated
- Requires little training



High Tech Assistive Technology

- Sophisticated complex electronics
- Requires training for staff and students



Assistive Technology Categories:

Motor Aspects of Writing

Communication

Reading

Access

Composing

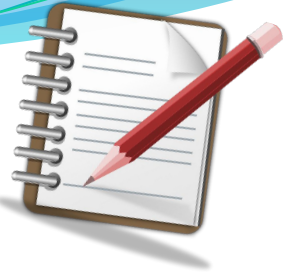
Vision

Hearing

Math

Mobility

Organization



Example: Motor Aspects of Writing

Low Tech

Letter stamps

Pencil grips

Adapted paper

Mid Tech

Label maker

Portable word
processor

High Tech

Computer/iPad:

Word processor

Word prediction

Speech Recognition

Winchester Assistive Technology

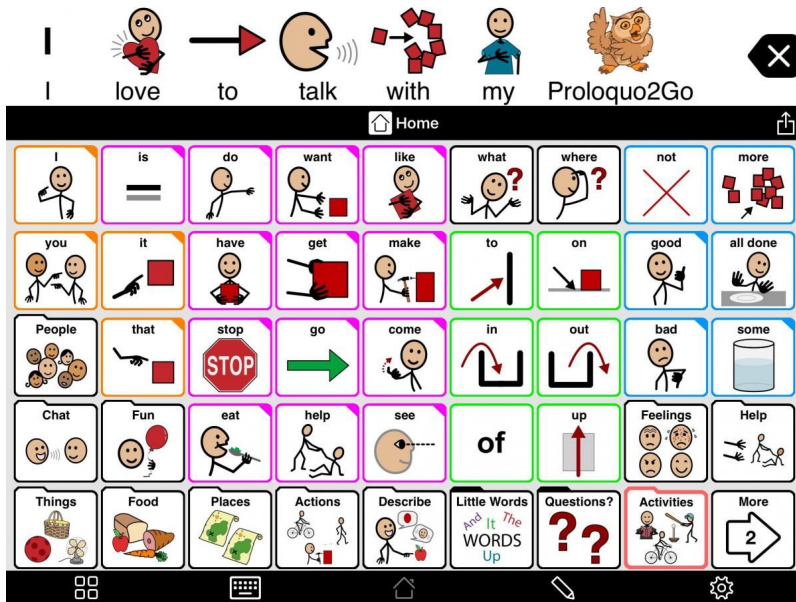
Hardware



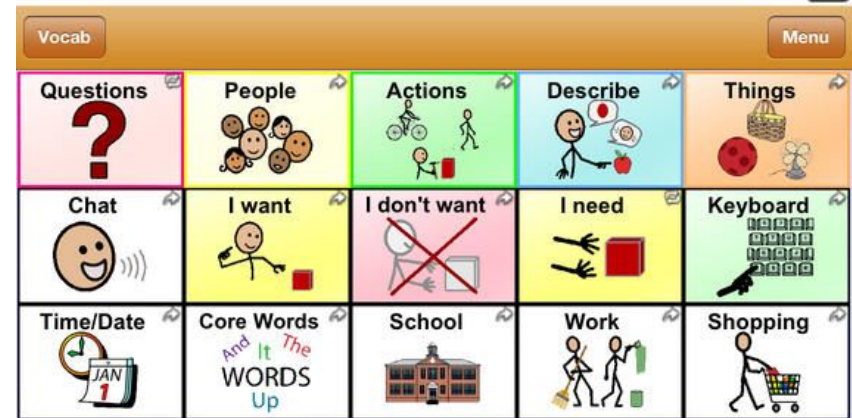
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AAC Devices

Augmentative and Alternative Communication Speech Therapist



I want more a drink a snack








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Visual Supports:

- Boardmaker software
- Symbolstix online



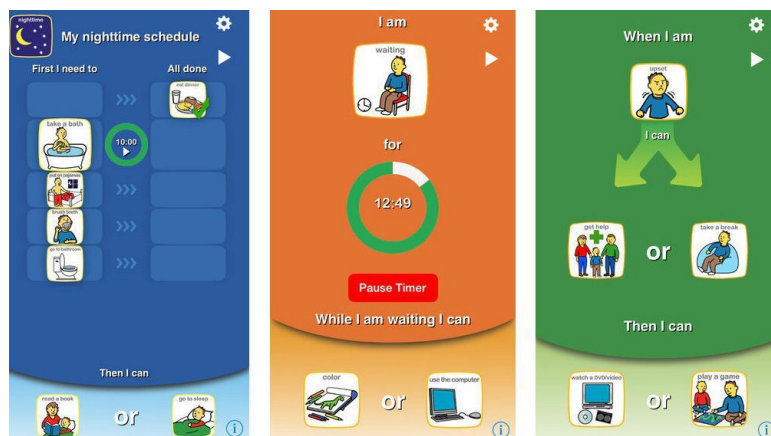
Today my schedule will probably be:

| | |
|--|--------------------------|
|  circle time | <input type="checkbox"/> |
|  reading class | <input type="checkbox"/> |
|  centers | <input type="checkbox"/> |
|  break | <input type="checkbox"/> |
|  read a story | <input type="checkbox"/> |

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Visual Supports iPad apps:

- Choiceworks
- Model Me Going Places
- First Then Visual Schedule



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Access to grade level text for students with a
‘print disability’.



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Access to grade level text for students with 'print disability'.

| Task | iPad/iPhone | Chrome |
|---------------------|--------------------------------------|--------------------------|
| Learning Ally books | Learning Ally Link | Learning Ally Link |
| Bookshare books | Voice Dream Reader Capti Narrator | Bookshare Web Reader |
| Text | Claro Scan Pen | Read&Write for Google ** |






Winchester Assistive Technology

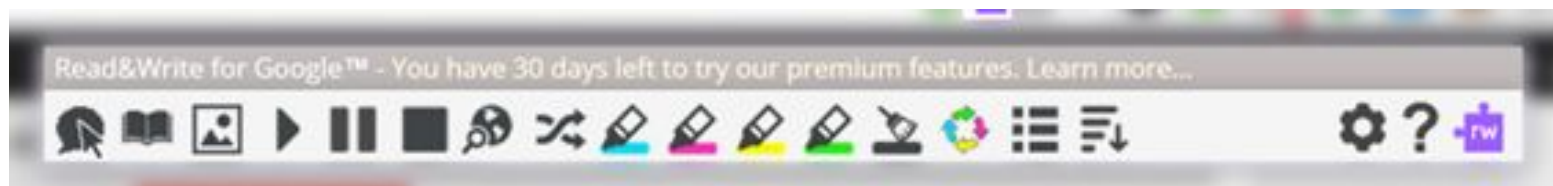
Read&Write for Google Chrome

300 Premium licenses

All students can have lite



| Vocabulary List | | | |
|-----------------|--|---|-------|
| Word | Meaning | Symbol | Notes |
| world | Of the whole world The planet that we live on and everything on it Your life, family, job, etc. can be referred to as your world A certain area of human or animal life |  | |
| weather | The state of the atmosphere at a certain place and time, especially as it affects human life in terms of wind, rain, etc. |  | |
| climate | Regular weather conditions |  | |
| atmosphere | The feeling in a place is the atmosphere of the place The mixture of gases that surrounds planets |  | |
| fossil | dodo, togy, fogey, fossil, dotard -- (informal) someone whose style is out of fashion fossil, archeological remains -- a relic or impression of a plant or animal that existed in a past geological age |  | |



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Read&Write for Google Chrome



<https://a-z-animals.com/animals/giraffe/>

https://rw.texthelp.com/simplify/home/simplify?locale=en_US&simplify=https://a-z-animals.com/animals/giraffe/

Websites: Alternative to Text

60 Second Recap - video recaps of classic literature for middle/high schools.

Storyline Online - Listen to stories read by Screen Actors Guild

WatchKnowLearn & Hippo Campus- Educational videos.

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

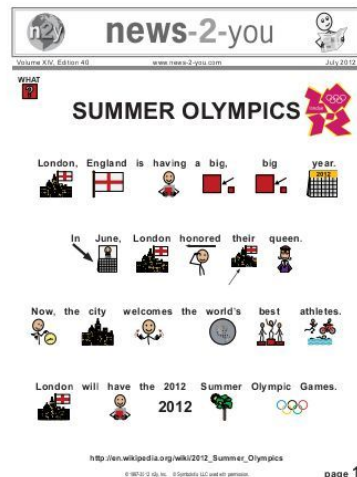


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Learners who struggle significantly with vocabulary and academic concepts.

News2you
Weekly current events

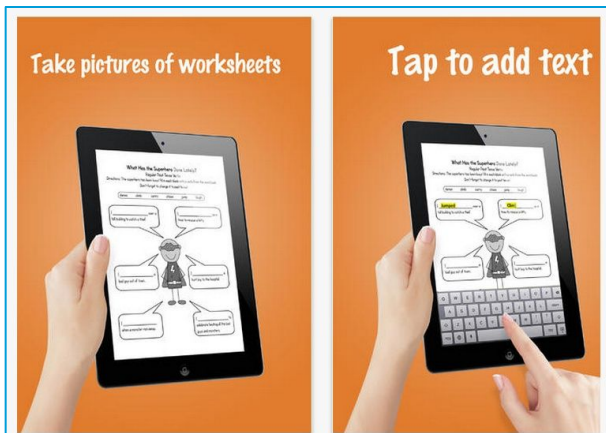
Unique Learning
Monthly lesson plans



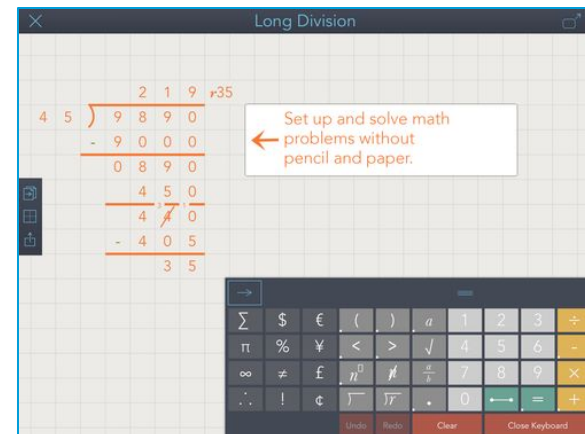
Winchester Assistive Technology

Written output: iPad supports

SnapType



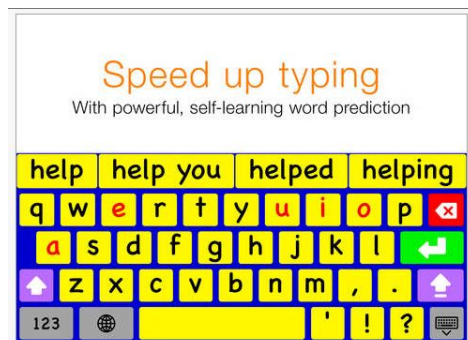
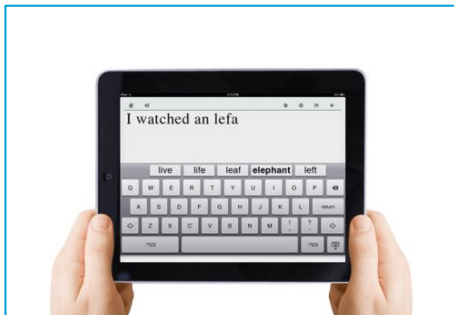
ModMath



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Written output: iPad supports

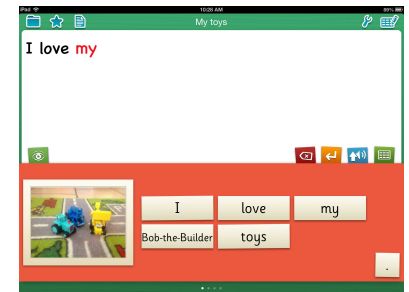
Word Prediction



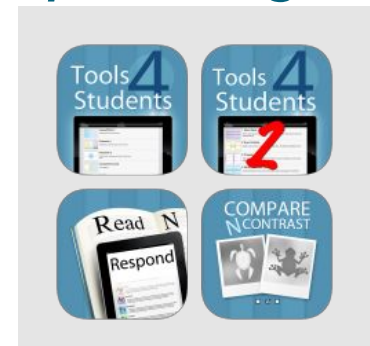
Word Wizard



Clicker Sentences



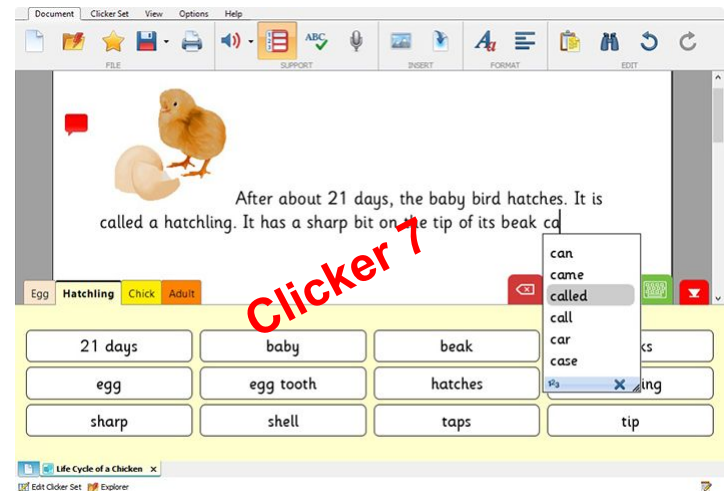
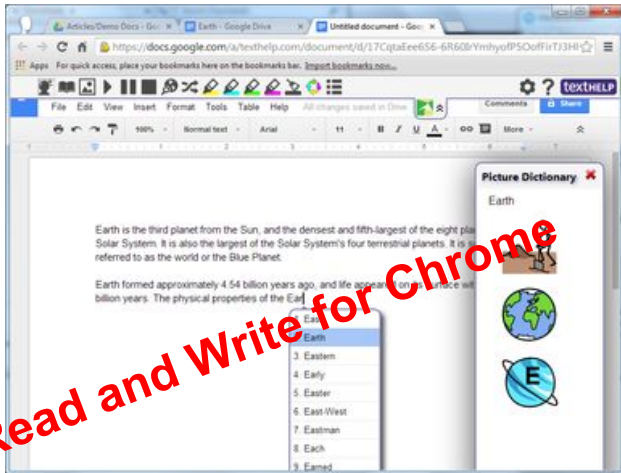
Graphic organizer



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Written output: Chrome and Software

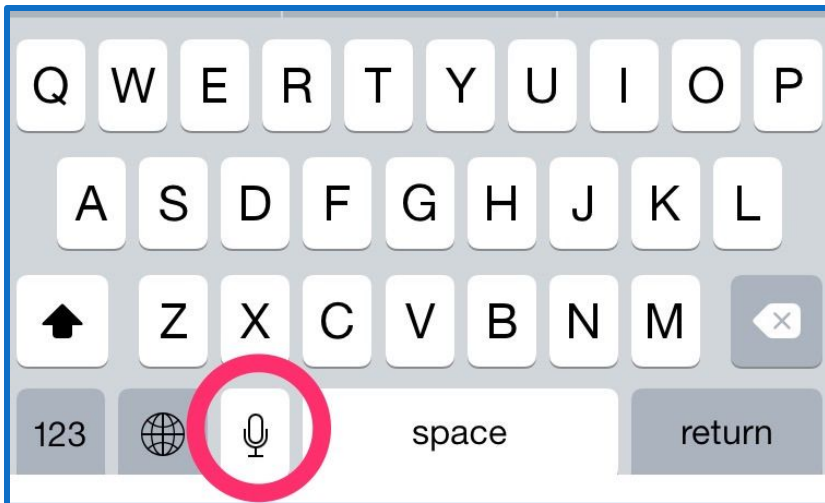
Word Prediction and Picture Support



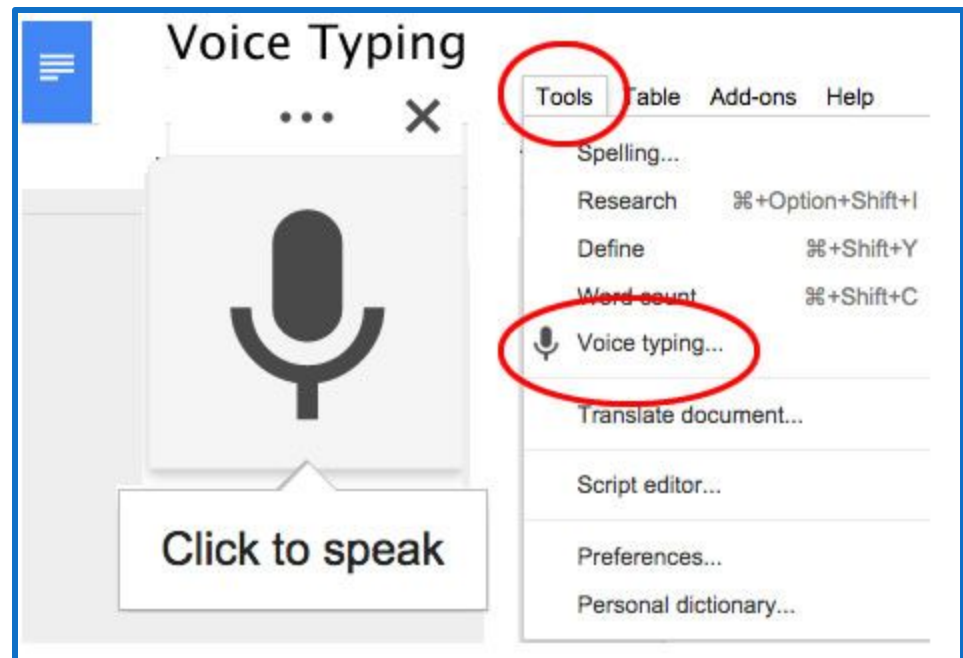
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Written output: Speech Recognition

iPad



Google Docs



Winchester Assistive Technology

Written output: Speech Recognition

Steps:

- Think It
- Say It
- Check It
- Fix It



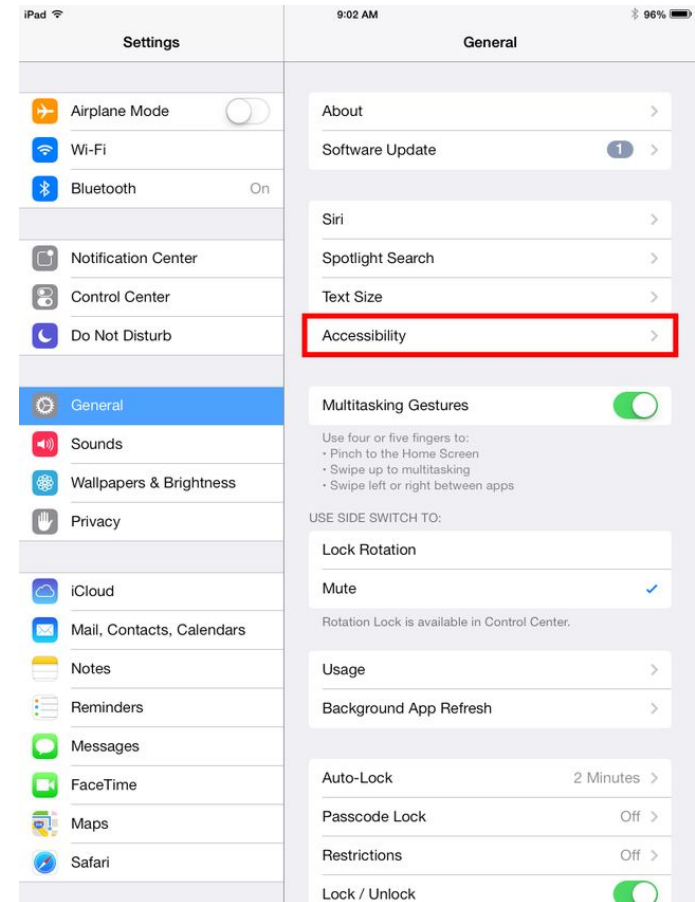
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iPads



iPad: Accessibility Features

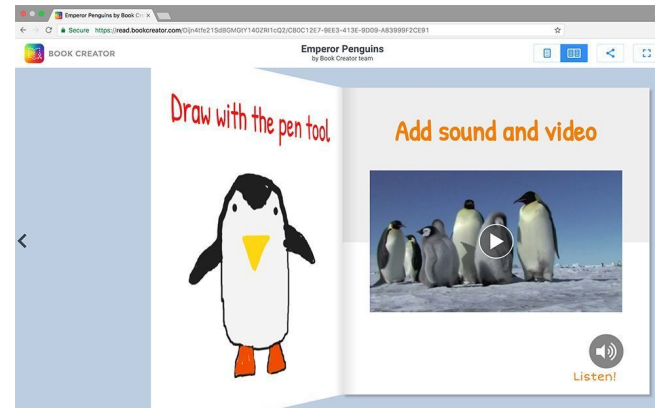
- Guided Access
- Text To Speech
- Switch Control
- Predictive Text
- Safari Reader
- Dictation
- Voice Over



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Winchester iPad Core apps:

Explain Everything
Notability
Felt Board
Book Creator
Drawing Pad



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Chromebooks



Chromebook: Accessibility Features

Chrome OS

Settings

Open a specific page or set of pages. See page 2

History

Extensions

Settings

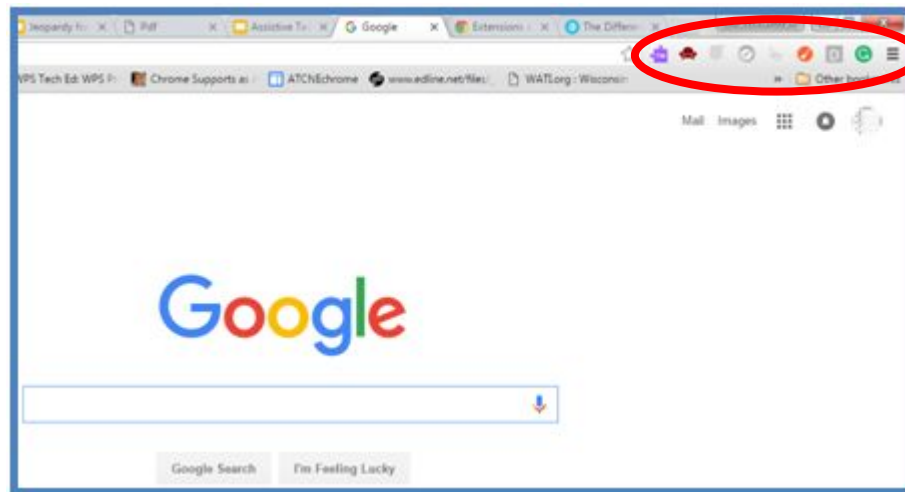
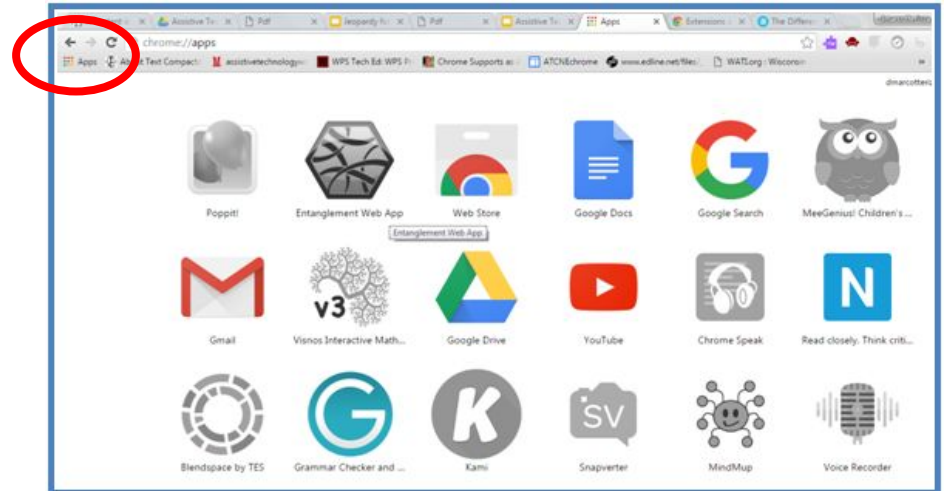
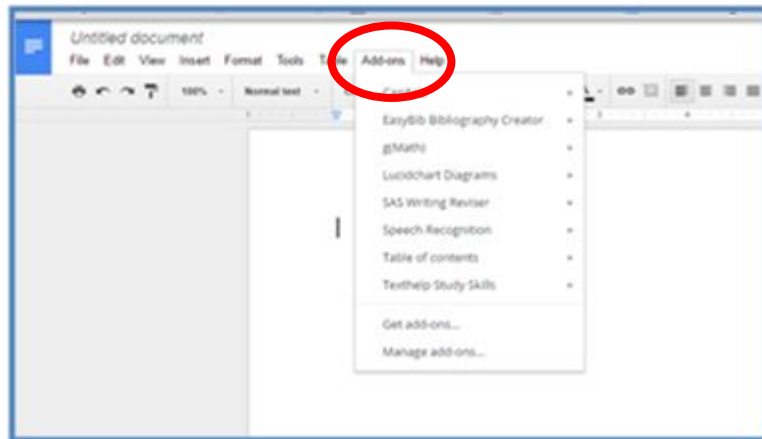
Help

Accessibility

Enable accessibility features to make your device easier to use. [Learn more](#)

- ☐ Show accessibility options in the system menu
- ☐ Show large mouse cursor
- ☐ Use high contrast mode
- ☐ Enable sticky keys (to perform keyboard shortcuts by typing them sequentially)
- ☐ Enable ChromeVox (spoken feedback)
- ☐ Enable screen magnifier
- ☐ Enable tap dragging
- ☐ Automatically click when the mouse pointer stops
Delay before click:
- ☐ Enable on-screen keyboard

Chrome: Apps, Extensions and Add-Ons



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Free Chrome Extensions:

- **OneTab**
 - OneTab convert all of your tabs into a list.
- **Skimzee**
 - Skimzee summarizes web pages - you can control how short or long.
- **Just Read**
 - remove distractions like:- The page's styling - Ads- Popups- Comments
- **Grammarly**
 - Free grammar check (paid version too)

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Free Google Doc Add ons:

- **MindMeister**
 - Turn bullet point list into a mind map
- **EasyBib Bibliography Creator**
 - Easy automatic bibliography and citation creator
- **Chrome Pomodoro Timer**
 - 25 minutes of work, followed by 5 minute break
- **SAS Writing Reviser**
 - Helps with Editing Process
- **Lucid Chart**
 - Free flow chart creator

Resources

iPads Apps:

- <http://www.callscotland.org.uk/downloads/posters-and-leaflets/>
- <https://search.bridgingapps.org/dashboard>

Chrome Apps, Extensions, Add-ons

- <https://mmatp.com/chromeat/>
- <http://atclassroom.blogspot.com/2013/02/chrome.html>