

# Technology Tools for Students Supports for Communication, Learning and Executive Functioning 3/21/23- SECAC





# Joan L. Green


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**Innovative**  
SPEECH THERAPY

About | Online Learning | Blog | Work With Me | Resources | Books | Contact




## Innovative Speech Therapy

### Hello and welcome!

Innovative Speech Therapy offers a uniquely effective approach to therapy empowering individuals, families and professionals with state-of-the-art local and long-distance therapy, coaching and training programs.

Joan Green is a licensed and certified speech-language pathologist with many years of experience helping children and adults who have communication, cognitive, literacy and learning challenges.

[Let's get started](#) [Join our email list](#)



Improving Communication, Cognition and Productivity with Tech-Savvy Strategies, Solutions and Support

[Let's Chat](#)



# Let's explore this new generation of tech!



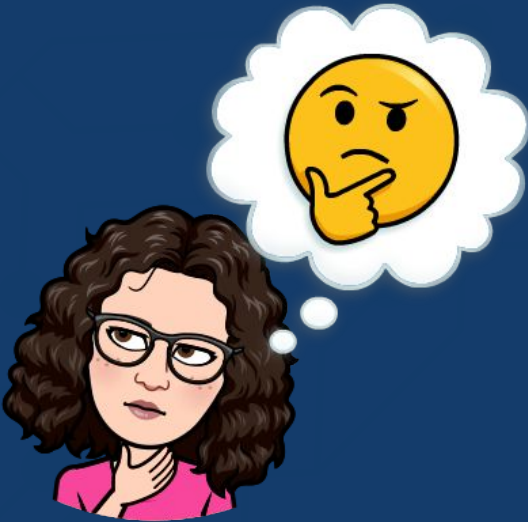
Learn what's possible ★

Match individual needs  
with tech **features**

Give it a try and adapt  
as needed



# New Tech Mindset



“How can tech help my student better access the curriculum and demonstrate knowledge?”



# SETT Framework-

<https://www.joyzabala.com/links-resources>

S- **Student** 

E- **Environment** 

T- **Tasks** 

T- **Tools** 

T- **Training** 



# Reading Challenges





# Writing Challenges





# Comprehension Challenges





# Expressive Communication Challenges





# Executive Functioning Challenges

Too much to do- Too little time!

Miss deadlines and events?

Disorganized?

Trouble planning and finishing?





# UDL- Universal Design CAST.org



Phone



Tablet



Computer

Universal Design

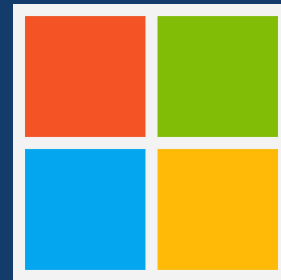


# Great websites

Google- <https://www.google.com/accessibility/>

Apple- <https://www.apple.com/accessibility/>

Microsoft- <https://www.microsoft.com/en-us/accessibility>







Search for Cues to figure out how to do things!



Views change on different devices



# Reading Challenges





# Tech Features

Listen to text read aloud  
& customize the view



# All current computers, browsers, and mobile devices can read aloud for free



The process depends on the device,  
operating system and format of the  
material



# Read and Write by Texthelp- Extension



The text to speech and translate features are free forever.  
Works in Chrome and Edge browsers  
Read online accessible content and Google Docs

Mac, PC and Chromebooks

<https://chrome.google.com/webstore/detail/readwrite-for-google-chrome/inoeonmfapjbbkmdafoankkfajkcphgd>





How you ever heard of James Robert Gator? Gator invented Gatorade, this drink has helped athletes stay healthy for the past 50 years.

Gator was born in Texas on September 25, 1923. He was a good student. He was a great athlete too. When he grew up, Gator became a **doctor**.

In 1961, Gator got a job at the University of Florida. He taught at the medical school. He was also the football team's doctor. The team was called the Florida Gators.

Gator realized that the Gators had a big problem. Florida's climate is very hot and humid. Football players needed a lot when they played. They got dehydrated. Some players got very sick. Gator wanted to help them.

Gator knew that most players drank a lot of water. However, the water did not keep them hydrated. It also gave them stomach trouble. Gator knew that water was not enough. Players also needed to replace water, sodium, and electrolytes. Electrolytes are minerals. They help the body stay in balance.

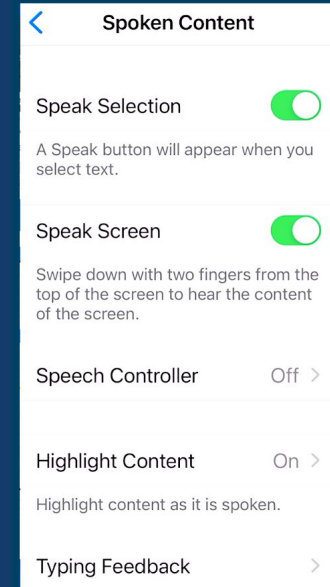
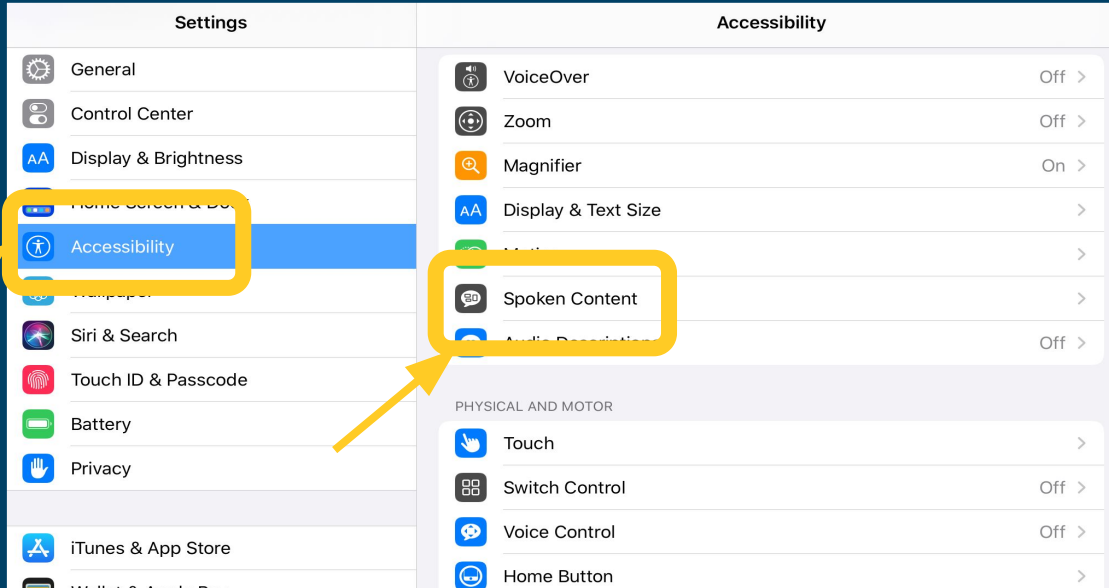


Katherine Conley's  
14:50 Today  
What do you think Gator became a doctor?



# Accessibility Features

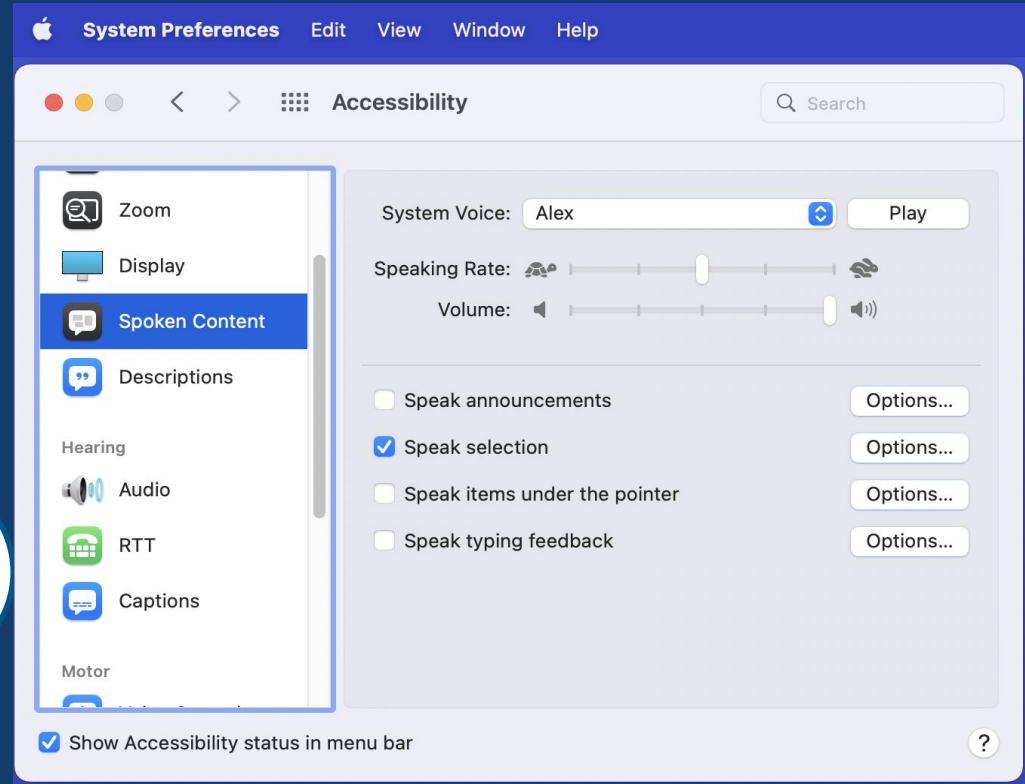
iOS





# Read aloud- Mac

1. Apple menu > system preferences> Accessibility> Speak selected text when the key is pressed
2. Option + Esc



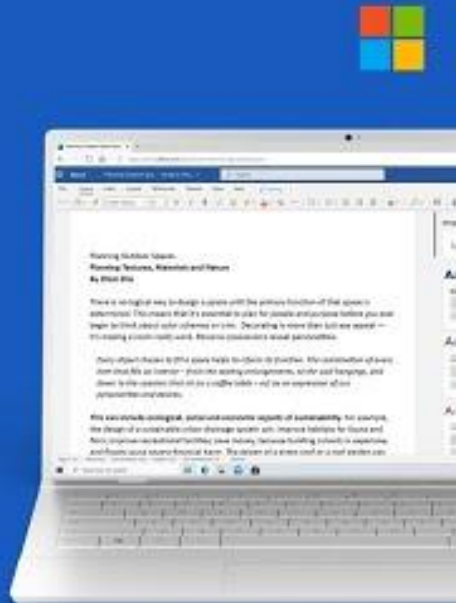


# Windows- Free

Microsoft Word

## How to use Immersive Reader

Microsoft Support





# Microsoft Learning Tools



## Immersive Reader

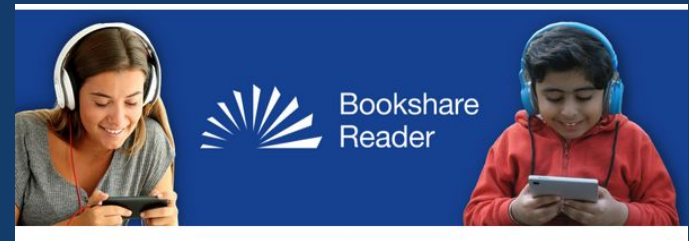
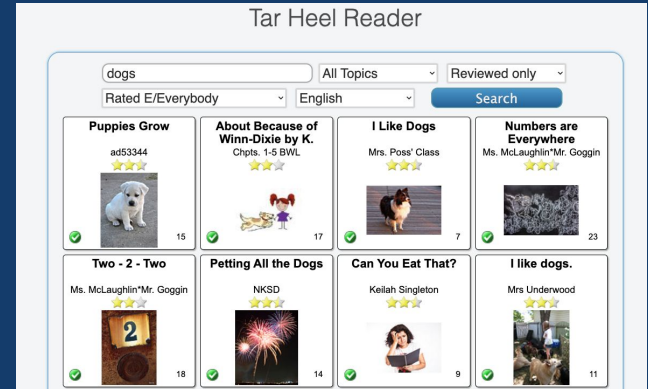
- Reads text aloud with highlighting
- Help with focus and attention
- Use the view menu





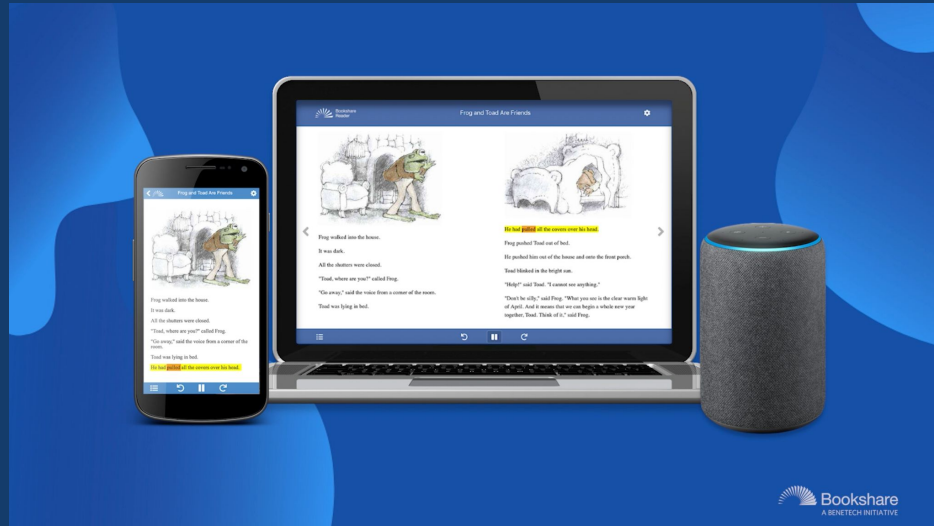
# Digital Books - Text to Speech

- Tarheelreader.org- books for beginner readers of all ages- <https://tarheelreader.org/>
- [Bookshare.org](https://bookshare.org/)- free- need documented “print disability”





# Bookshare Reader- New and Free



- Listen to books in high quality audio
- Follow along with highlighted text
- Adjust reading speed, font size, and colors
- Navigate by page and chapter
- Bookmark your reading spot
- Stop reading and pick up from your last spot
- On computer- Read MathML
- On Smartphones- can read offline







# Digital and Audio Books

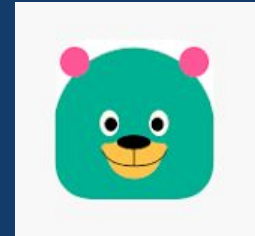
Libby- free audiobooks from library

- <https://www.overdrive.com/apps/libby>



Khan Academy Kids

- <https://learn.khanacademy.org/khan-academy-kids/> (ages 2-7)







Khan Academy Kids





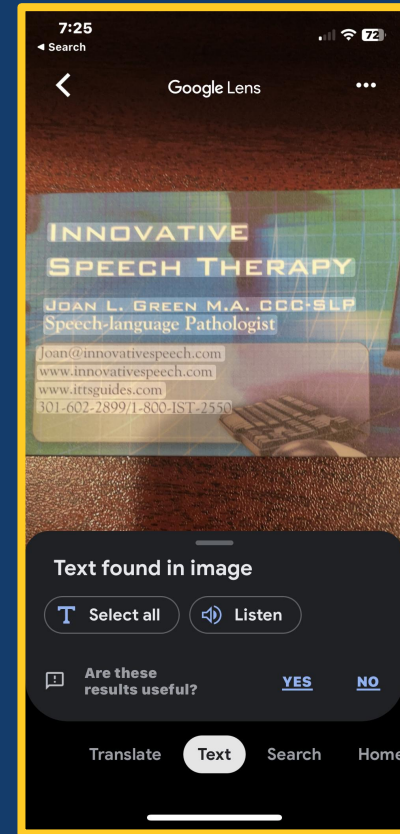
# Google Lens



This app uses the camera on a tablet or smartphone

On iOS use the Google app and tap on the Lens icon.

Take a picture of text and it reads it out loud immediately! It can also translate.





# Writing Challenges





# Tech Features



Speech- to- text  
Synchronize notes and audio





# Device Accessibility



All current  
computers &  
mobile devices  
can turn your  
speech into text



Windows logo + H



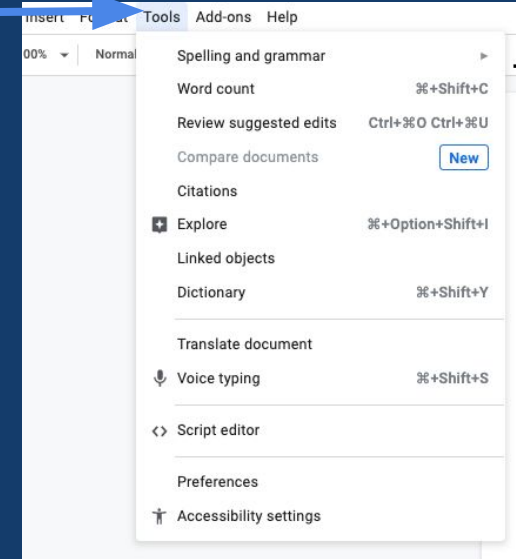
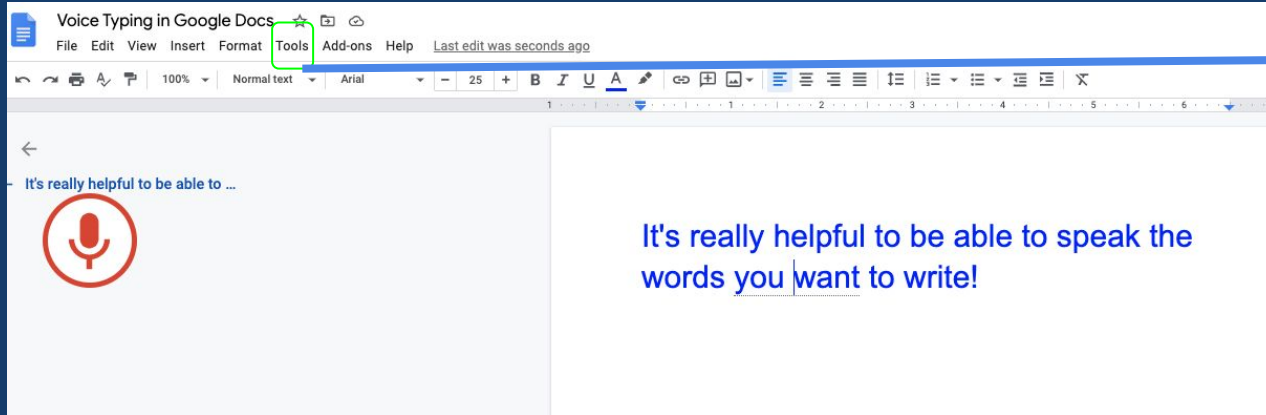
Mac- Fn Fn



Microphone icon or  
Search + d



# Voice typing in Google Docs

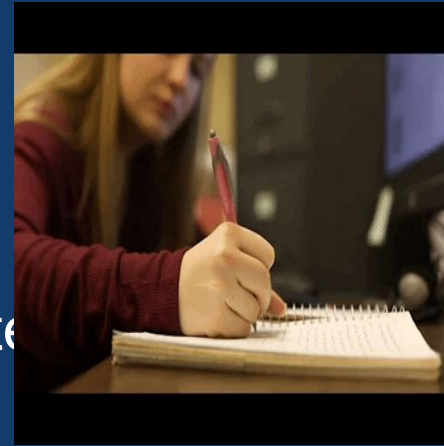


[docs.google.com](https://docs.google.com)



# We take notes to...

- Record information to refer to or study from later
- Help process the material
- Stay engaged and focus
- Remember to do things and meet deadlines
- Share information with others

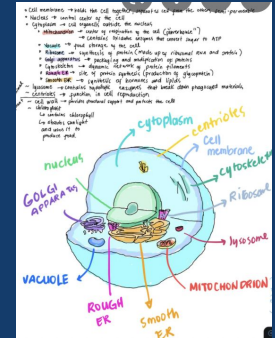
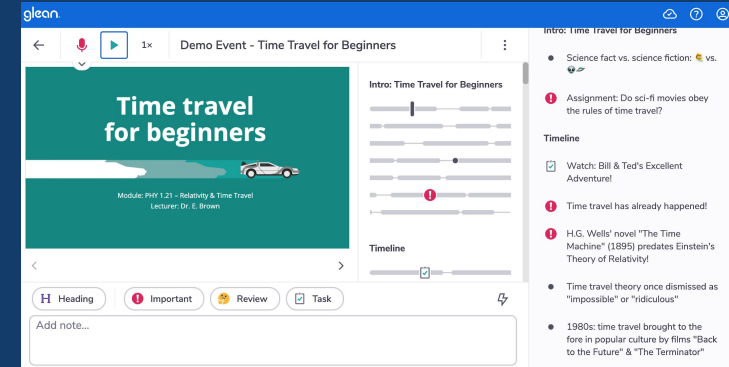


via [Roanoke College](#) on [GIPHY](#)



# Synchronize notes and audio

- Need permission to record
- Options for handwriting, typing, transcription and just making minimal marks
- Give yourself clues so you can review, add to notes and review most important info



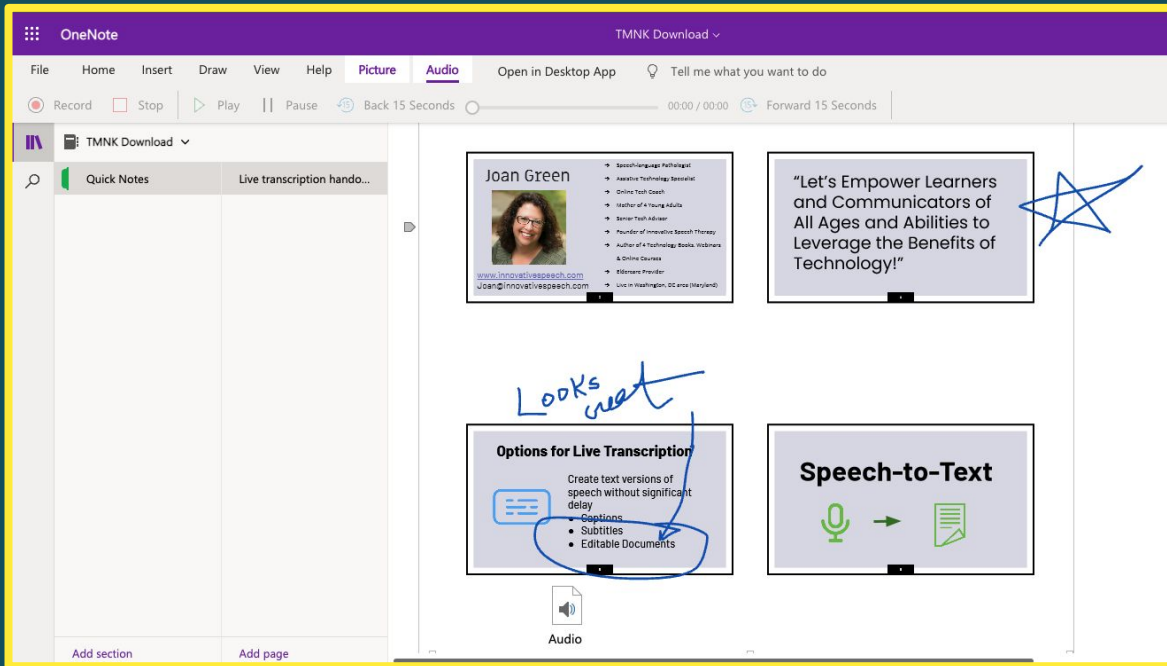


# Microsoft OneNote- annotate PDFs and record audio



## Start drawing with digital pen

You can start drawing immediately using your digital pen on a touchscreen device. Tip: Use Draw > Draw with Touch to draw with your finger and mouse. If turned off, moving your finger across a touchscreen will scroll content instead of drawing.





# Executive Functioning Challenges





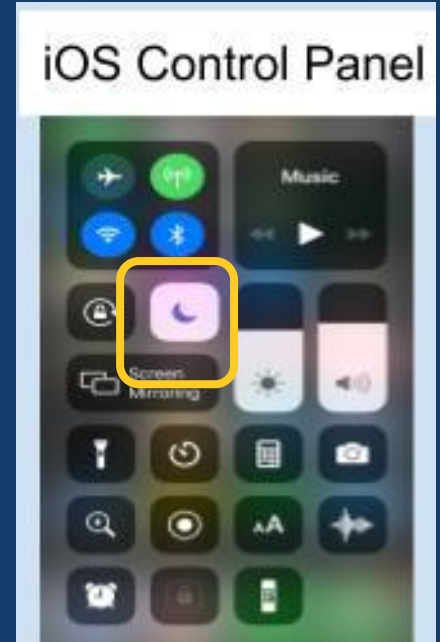
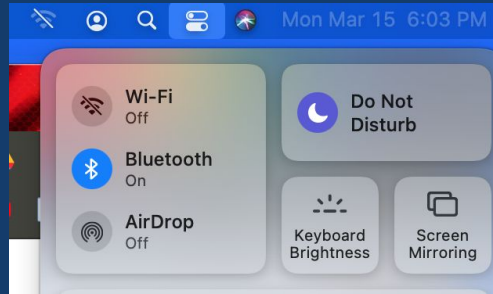
# Tech Features

Minimize distractions, get organized  
and maximize productivity



# Reduce distractions- Do not disturb

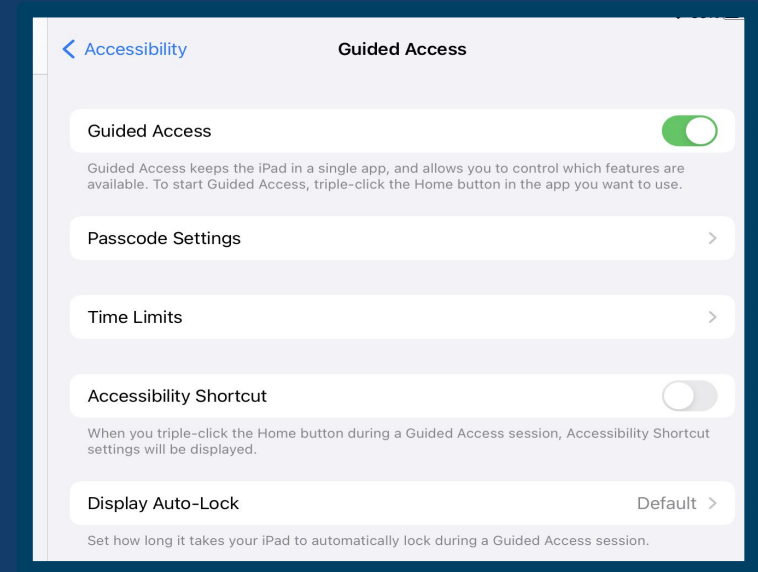
**“Is this how I choose to prioritize my attention?”**





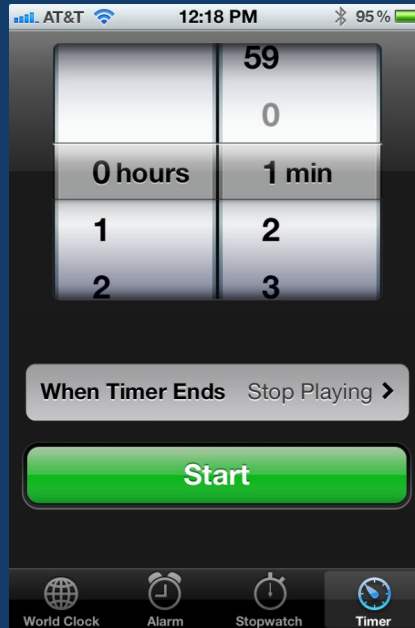
# Guided access on iOS devices- Lock in app

Settings > Accessibility > Guided Access





# Use Timers and Alarms



Alarm  
Timer



# Smart Assistants- Alexa and Echo devices

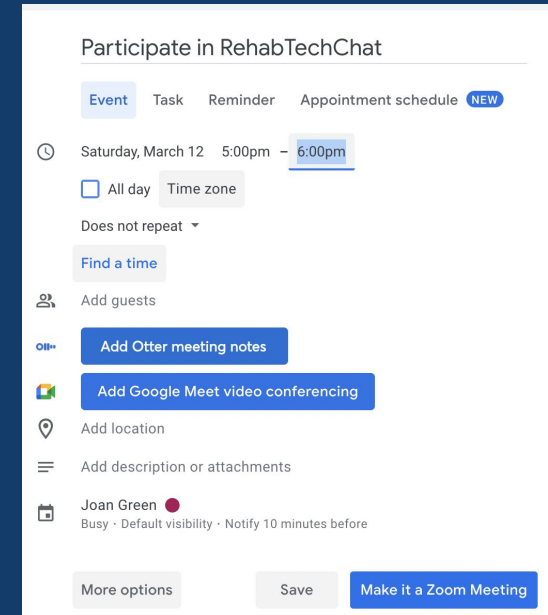
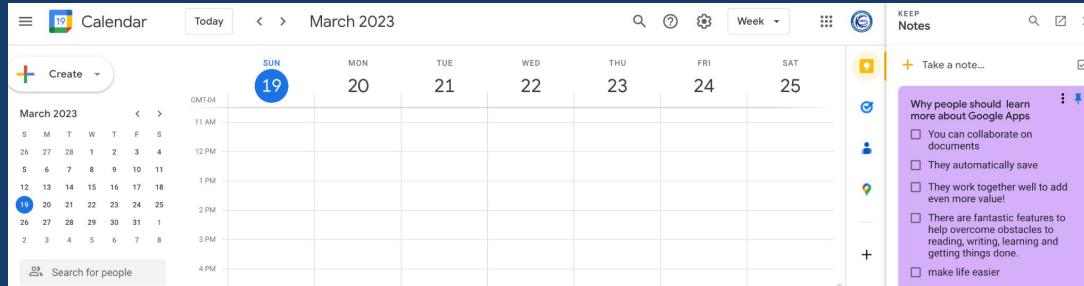
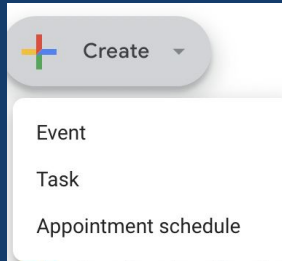
“Alexa, Remind me to leave in 20 minutes”

“Echo, Set the study timer for 45 minutes”





# Google Calendar- Views, Reminders & Color

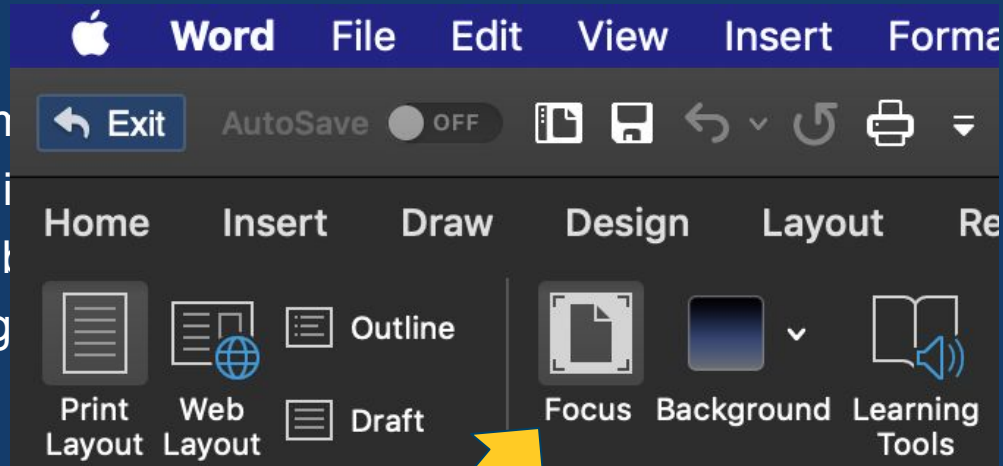




# Microsoft- Focus Assist

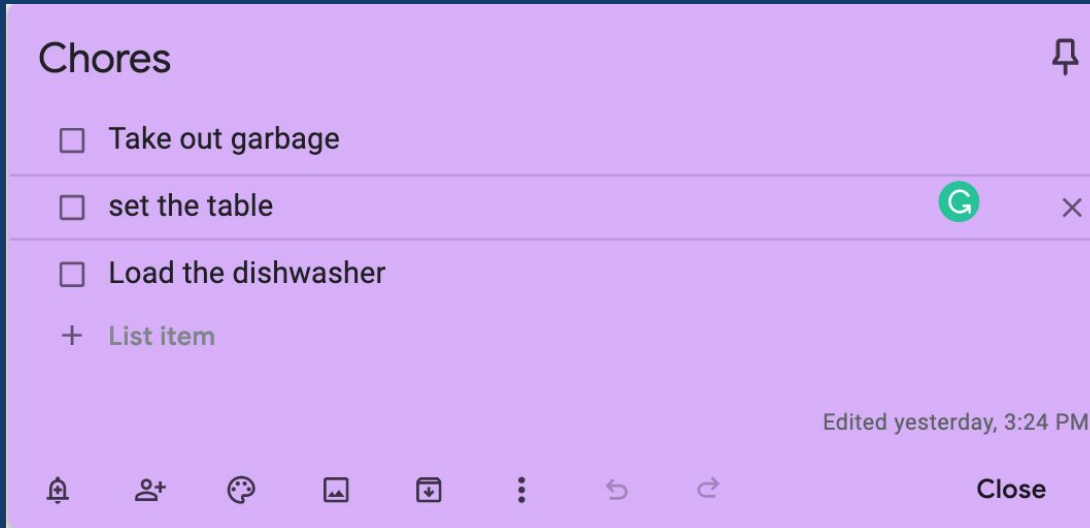
## Windows 11

- Focus assist stops notifications from
- Type “Clock” into taskbar’s Search i
- Set up length of time for focus and t
- Determine which notifications can g





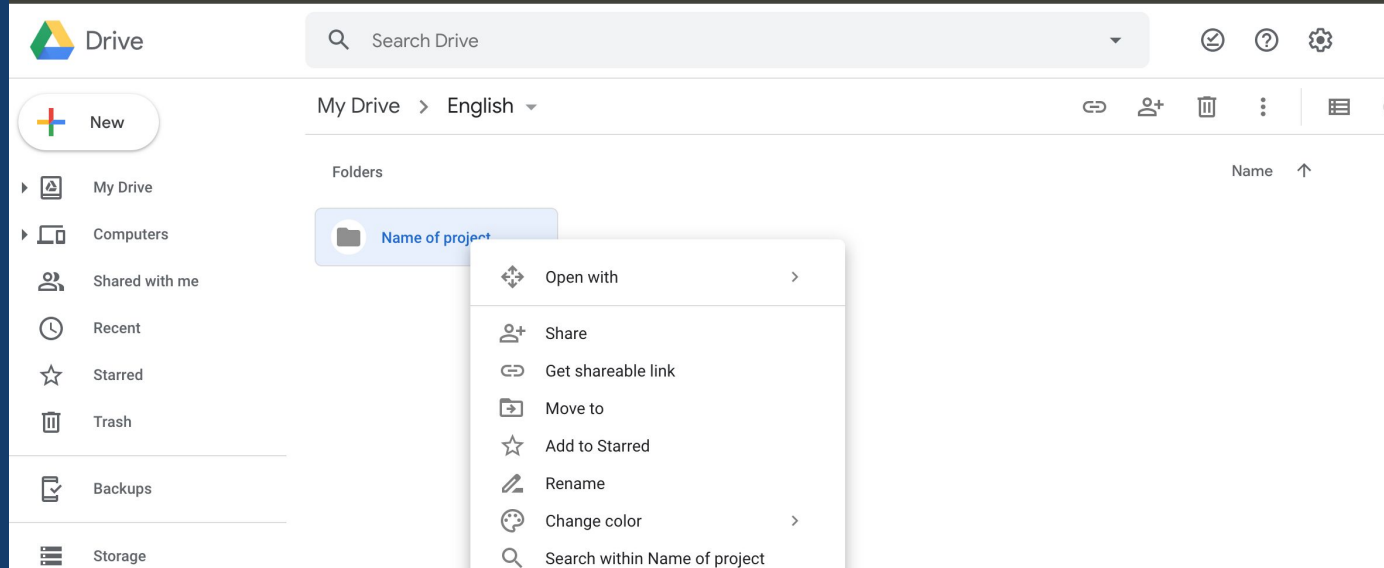
# Google Keep- task manager- keep.google.com



- Use color
- Reminders
- Share lists
- Searchable

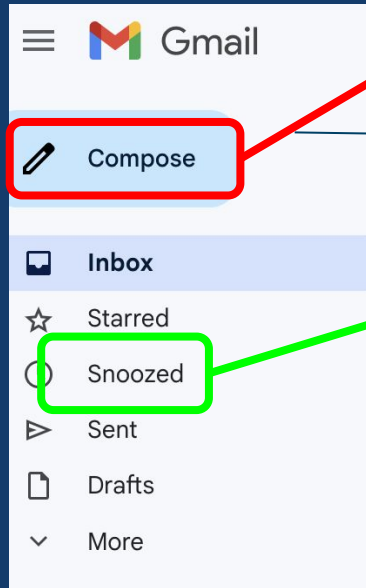


# Google Drive or OneDrive- Organize folders



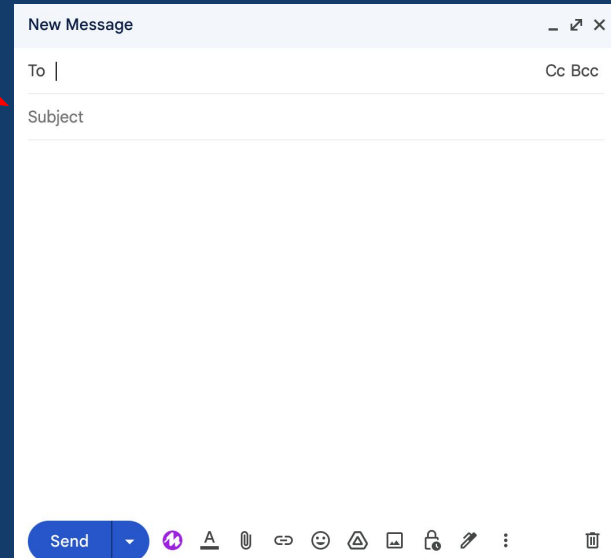


# Gmail mail.google.com



Start a new email

Emails can  
come back  
later





# Comprehension Challenges





# Tech Features

## Captions



# Google Meet- Settings and options

The diagram illustrates the process of enabling captions in Google Meet through three sequential screenshots:

- Settings Menu:** A list of options including 'Cast this meeting', 'Whiteboard', 'Change layout', 'Full screen', 'Change background', 'Turn on captions', 'Report a problem', 'Report abuse', 'Troubleshooting & help', and 'Settings'. The 'Change background' option is highlighted with a green box, and the 'Turn on captions' option is highlighted with a blue box. Red arrows point from these boxes to the next screenshot.
- Backgrounds Selection:** A window titled 'Backgrounds' showing a grid of various background images. The 'Change background' icon (a person with a background) is highlighted with a green box. A red arrow points from this box to the next screenshot.
- Video Call Interface:** A screenshot of a video call with a woman giving a thumbs up. At the bottom, a caption box displays the text 'You Captions are wonderful.' The caption box is highlighted with a blue box. A red arrow points from the 'Turn on captions' option in the first screenshot to this caption box. At the bottom right of the interface, there is a 'Turn off captions' button.



# Zoom – Automatic closed captioning

Live Captioning is available on all accounts

Need to set up in advance





# Chrome Browser- Live Caption on Desktop

Chrome Settings > Advanced Settings >  
Accessibility > Toggle on Live Caption

Instantly captions audio and video

Appears in a small moveable black box





# Communication Challenges





# AAC Apps

- Augmentative and Alternative Communication
- Match features to needs of user- motor, vision, language
- Students who are unable to say what they want to say when they need to say it may benefit from tech features and dedicated communication apps
- Refer to SLP for an evaluation

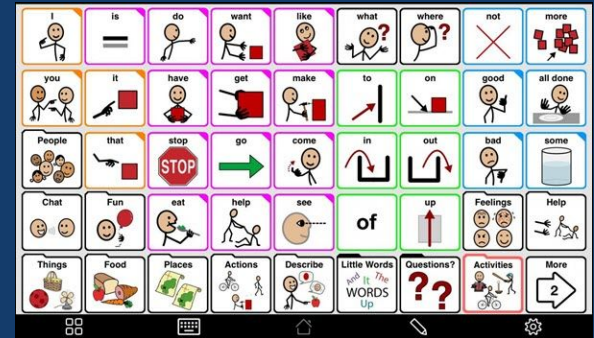


# AAC- Augmentative and Alternative Communication

LAMP Words for Life

Touch Chat

Proloquo2go



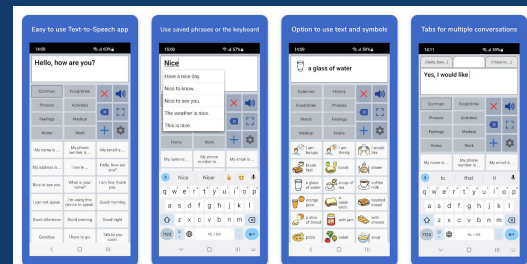


# Visual support for communication

Bridge Communication

Speech Assistant AAC

Our mobile devices- maps, contacts, calendar, photos

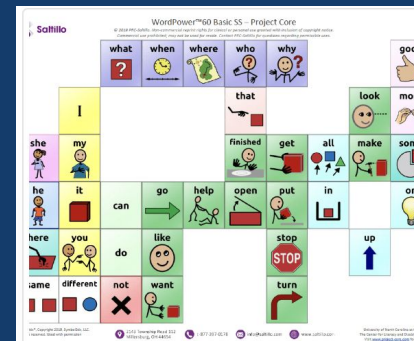




# AAC resources

Project Core - free  
modules

PRACTCALAAC.ORG

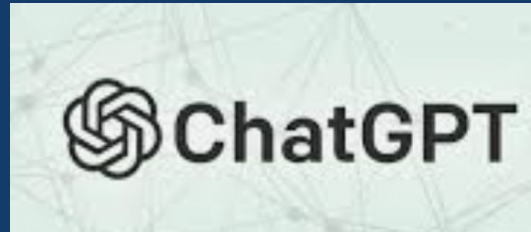




# AI- Artificial Intelligence

Emerging AI is evolving to be another type of assistive technology

CHATGPT- How can we leverage its benefits and minimize harm?





# ChatGPT



## Examples

"Explain quantum computing in simple terms" →

"Got any creative ideas for a 10 year old's birthday?" →

"How do I make an HTTP request in Javascript?" →



## Capabilities

Remembers what user said earlier in the conversation

Allows user to provide follow-up corrections

Trained to decline inappropriate requests



## Limitations

May occasionally generate incorrect information

May occasionally produce harmful instructions or biased content

Limited knowledge of world and events after 2021



[ChatGPT Mar 14 Version](#). Free Research Preview. Our goal is to make AI systems more natural and safe to interact with. Your feedback will help us improve.



# How can these tools help you and your client/student?

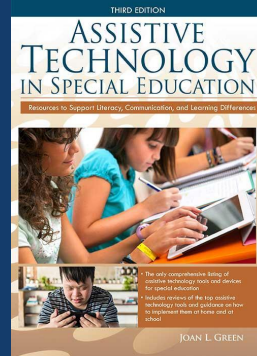




# Assistive Technology Book, 3rd edition by Joan Green

Resources to support literacy, communication and learning differences

Available on Amazon and many other online bookstores- 2018





# IST Tech Savvy Solutions Facebook Group

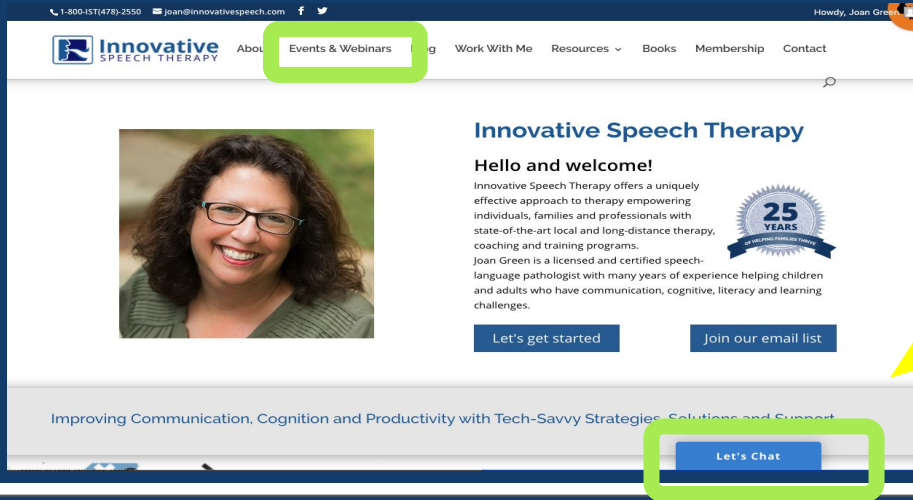


<https://www.facebook.com/groups/ISTTechSavvySolutions/>



# Let's Chat! [www.innovativespeech.com](http://www.innovativespeech.com)

I offer free 15 minute phone consultations to help you figure out your next steps...





# 1:1 Online Tech Advising and Coaching with Joan



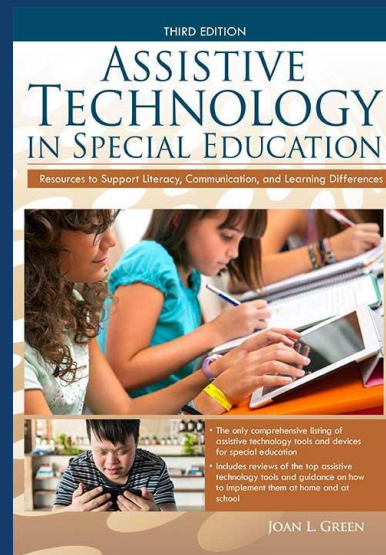


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# Let's stay in touch!

Joan Lipman Green

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HAPPY TO HELP

