

# ASSISTIVE TECHNOLOGY EVALUATION

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# Contents

<b>Part 1</b>	Introduction
<b>Part 2</b>	Areas being covered
<b>Part 3</b>	Reading
<b>Part 4</b>	Writing
<b>Part 5</b>	Executive Functioning Skills/Note taking
<b>Part 6</b>	Mathematics
<b>Part 7</b>	Summary and Recommendations

# Part 1. Introduction

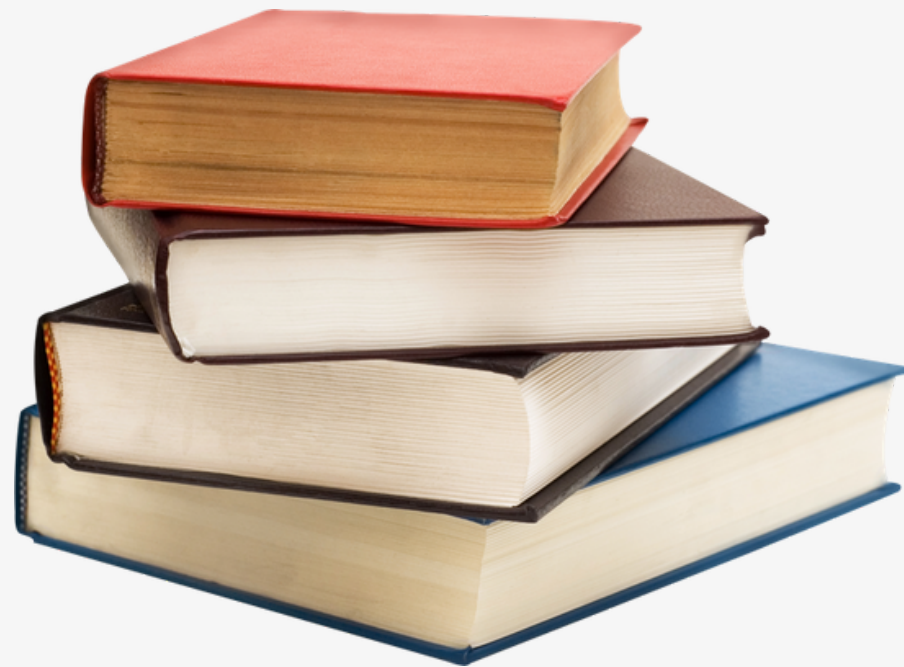
**This Assistive Technology Evaluation/Update is to help provide very beneficial resources/tools for the student to better access the curriculum in high school and beyond. Very specific tools were chosen to help in the areas of Reading, Writing, Math, and Executive Functioning. The focus is on Executive Functioning and tools to help support him in the area of Mathematics. All tools and resources align with areas covered in current and previous goals and objectives.**

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Part 2.

# Reading



1

**Snap and Read**



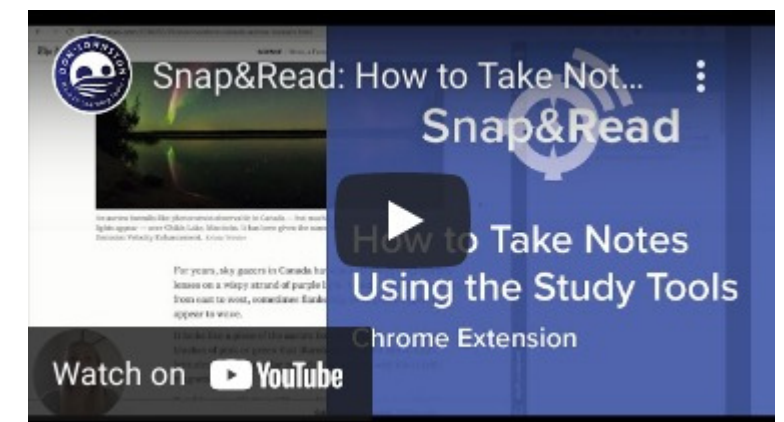
2

**Snap and Read Continued:**



3

**Snap and Read Continued:**



## Part 4.

# Writing



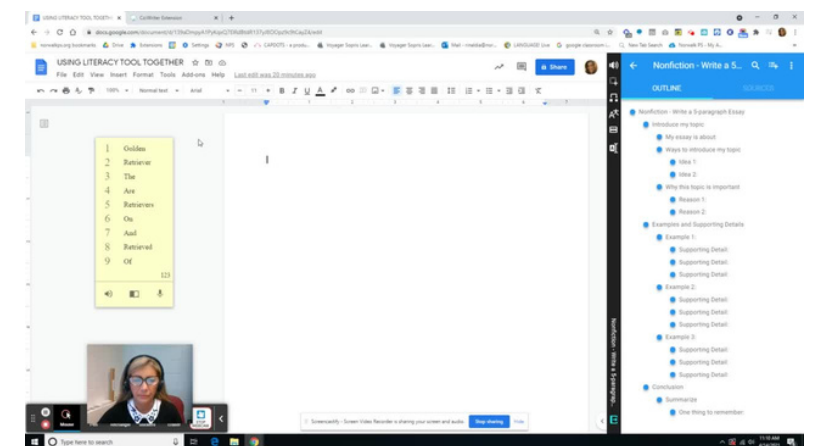
1

## Co:Writer



2

# Co:Writer and Snap and Read Combined For Literacy



Part 5.

# Executive Functioning Skills



High School is an important time for the continued development of Executive Function skills.

These include:

- Self-regulation - managing strong emotions and inhibiting impulsive behaviors
- Attention - sustaining focus, especially for lengthy or challenging tasks
- Task Initiation - starting a non-preferred task
- Organization - keeping track of materials at home and in school, organizing ideas and information for essays and research papers, managing digital data and files
- Planning and Prioritizing - mapping out multi- step tasks such as long-term class projects, and tackling assignments in order of importance
- Time Management - allocating time for work and other commitments
- Cognitive Flexibility - taking the perspective of teachers and peers and formulating different solutions to problems
- While some students seem to develop these skills seamlessly, many struggle and benefit from a level of direct 1:1 instruction and support that is often unavailable in most high schools.

# Recommendations

## Executive Functioning

- The student should practice learning and apply strategies to stay on task and maintain attention.
- The student should practice how to get work started and persist with challenging work.
- The student should develop a personalized systems to organize materials and work areas. The student should develop systems to start and complete writing assignments.
- The student should learn how to break assignments into smaller parts and plan when to do work.
- The student will practice Identifying and use technology that improves his productivity.
- The student should practice and learn how to study and take tests effectively.
- Along with the teacher the student should be encouraged to gain insight about what motivates him, and use that knowledge to be productive.
- The student will learn how to advocate for himself with teachers or service providers.

# Recommendation Examples



## Executive Functioning

- Live Scribe Pen for Note Taking
- Google Classroom connected to Google Calendar
- Use of Google Tasks and Google Keep
- On-line Assignment Calculator
- Electronic notes provided in advance
- Use of writing tablet for math - will help with productivity
- Provided with pre-test study guides
- The student can participate in online learning style inventory to determine how he learns best.
- The student should practice emailing his teacher if he has questions or concerns
- Self checklists for completing homework or projects



# Recommendations for Math

## Word Problems



### Word Problems

- Mark up the problem.
- Ask the student read through the problem once. Then, have him read it again, circling the important words and phrases. This can help students stay focused and avoid rushing.
- Make a checklist: Make a list of things that the student should double-check when solving a problem, like circling key phrases and writing a number sentence.
- Cover up distractions: Use blank pieces of paper to cover all the problems except the one that the student are working on.
- Explicit instruction with cumulative practice: **Explicit instruction** is a way of teaching that makes the learning process completely clear for students. With explicit instruction, you model a skill and verbalize your thinking process, using clear and concise language. You give student opportunities for guided and independent practice – including practicing the new skill and reviewing skills that they've learned in the past. You also give students quick feedback so they stay on track.

# Tools and Web-based Assistance



- Fraction Calculator
- XPen wireless sketch pad to work on math problems on-line.
- Touch-Screen Chromebook
- Symbol-lab
- Quickmat Equations
- Wolframalpha
- Math Papa

# Summary

## Reading

Continued use of **Snap and Read** for comprehension, vocabulary development **Study skill support, text to speech** and being able to use **graphic organizers** while using co:writer simultaneously.

## Writing

Continued use of **Co:Writer, Snap and Read** graphic organizers, word prediction and voice to text

## Executive Functioning Skills

- **Live Scribe Pen** for Note Taking
- **Google Classroom** connected to **Google Calendar**
- Use of **Google Tasks** and **Google Keep**
- On-line Assignment Calculator
- **Electronic notes**
- Use of writing tablet for math
- Study guides
- **Online learning** style inventory to determine how he learns best.
- Email his teacher if he has questions or concerns
- **Self checklists**

## Math

- Fraction Calculator
- XPen wireless sketch pad to work on math problems on-line.
- Touch-Screen Chromebook
- Symbol-lab
- Quickmat Equations
- Wolframalpha
- Math Papa

## Reccomended Tools

- Fraction Calculator
- Touch Screen Chromebook
- XPen Sketch pad
- Live Scribe pen (notes)
- Snap and Read
- Co:Writer
- WordBank
- Electronic Graphic Organizors