

SAIS Academic Support Conference

Great Minds Don't Think Alike

A New Lens for a New Year

February 5, 2023

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Ice Breaker

choose your WORD OF THE YEAR

ACCEPT	FAITH	JOURNEY	RESPOND
ACCOMPLISH	FAMILY	JOY	RESTORE
ADVENTURE	FEARLESS	KINDNESS	RHYTHM
ALLOW	FIGHT	LEAD	RISE
AMBITION	FINISH	LEARN	SAVOR
BALANCE	FITNESS	LESS	SEEK
BE	FLEXIBILITY	LIFT	SHINE
BELIEVE	FLOW	LOVE	SIMPLICITY
BREATHE	FOCUS	MEDITATE	SLAY
BUILD	FORWARD	MINDFUL	SLOW
CAPABLE	FREEDOM	MOMENTS	SOAK
CELEBRATE	FRIENDS	MORE	SPARKLE
CHALLENGE	FULFILL	NEW	SPIRIT
CHANGE	FUN	NO	STRENGTH
CHASE	GRACE	NOW	SURRENDER
COMMIT	GRATITUDE	OBSERVE	SUSTAIN
COMPASSION	GROW	OPEN	TEACH

CULTIVATE	HOME	PEACE	TRANSFORM
DAZZLE	HOPE	PERSEVERE	TRAVEL
DECREASE	HUSTLE	PERSISTENCE	TRUST
DELVE	ILLUMINATE	PRESENT	UNAFRAID
DETERMINATION	IMAGINE	PRIORITIZE	UNFOLD
DEVOTE	IMPROVE	PRODUCE	UNIQUE
DILIGENCE	INCREASE	PRODUCTIVE	UNLIMITED
DISCIPLINE	INDULGE	PROGRESS	VALIDATE
DREAM	INSPIRE	PROVIDE	VIBRANT
DRIVE	INTEGRITY	PURPOSEFUL	VISION
ELEVATE	INTENTION	RELEASE	WANDER
EMERGE	INTENTIONAL	RELIABLE	WHOLE
EVOLVE	INTIMATE	RENEW	WILD
EXAMPLE	INTUITION	REPLENISH	WONDER
EXPLORE	INVOKE	RESOLVE	

Today's Agenda

New Lens

- Defining learner variability
- Deep dive on cognitive variability
- How to address learner variability

Case Studies

Questions

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Defining Learner Variability

What Drives Learner Variability?

Sources: Cattell (1987), Sahlberg (2006)

Cognitive Skills
50%

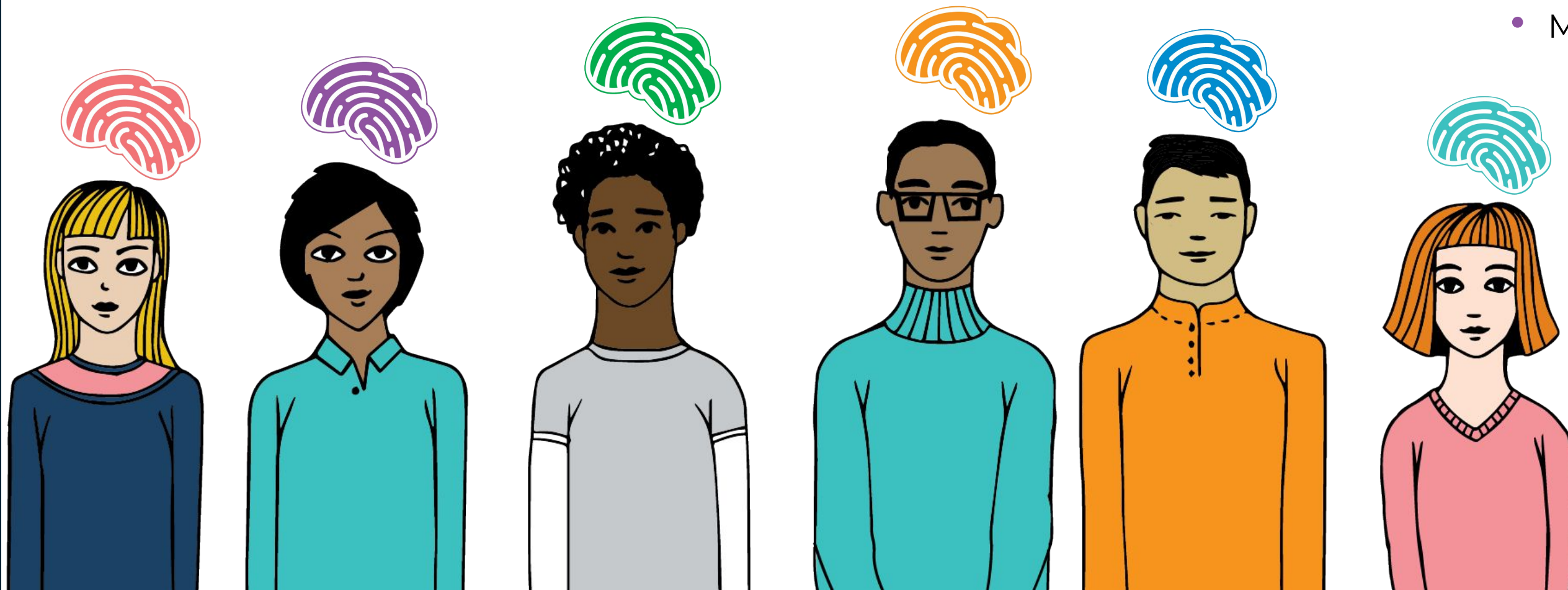
- Complex Reasoning
- Executive Functioning
- Memory
- Processing

Academic Knowledge
25%

- Curriculum
- Teacher Training
- Depth of Knowledge


Social & Emotional
25%

- Relationships
- Motivation
- Mindset
- Engagement/Interest
- Mental Health






The Learning Pyramid



Flexible Thinking



Verbal



Visual



Working Memory



Attention



Processing



Visual-Abstract



Verbal



Visual-Spatial

Transfer
Problem Solve

Remember
Long-term Memory

Apply
Executive Functions

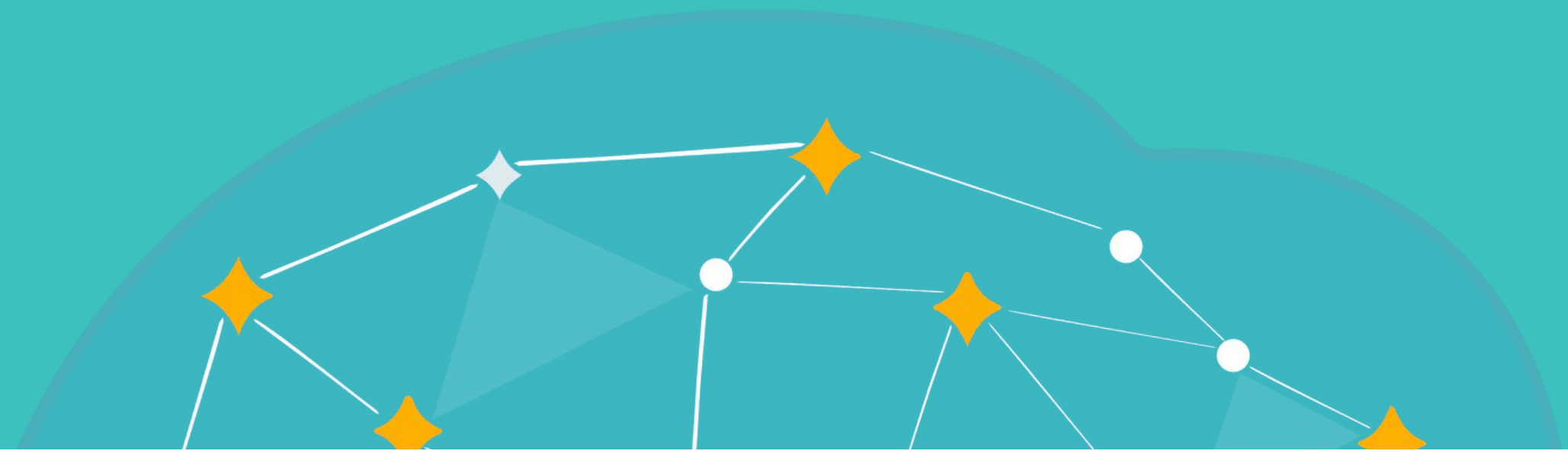
Understand
Complex Reasoning



“A growth mindset is the belief that your abilities can be increased through effort, but **not just effort, through good strategies and lots of support** and help from others.

It's not that growth mindset theory denies there are differences in how quickly people master certain things. It's just that the focus is on the idea that everyone, with effort and guidance, can increase their abilities.”

Dr. Carol Dweck (2000 & 2020)
Author, Growth Mindset



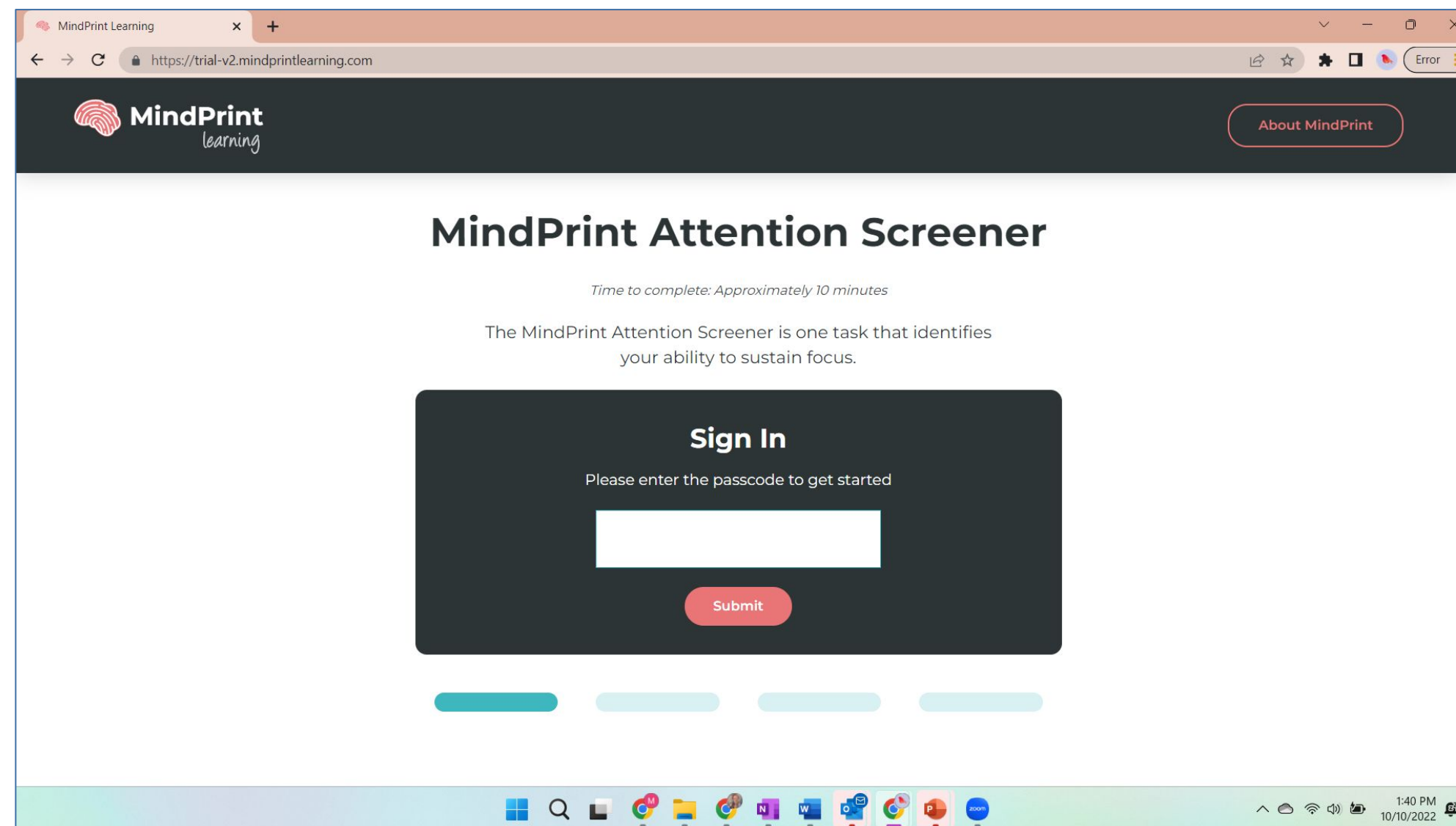
Activity



5 Minute Exercise

Open your laptop and get your headphones.

Go to <https://trial-v2.mindprintlearning.com> and enter code: AFT2021



Turn & Talk

What adjective best describes how you felt?

- Confident
- Frustrated
- Angry
- Tired
- Indifferent

Executive Functions & Speed

*What gets in the way **even if you understand it***



Attention



Processing



Working Memory



Flexible Thinking

Focus/Follow-through

Efficiency

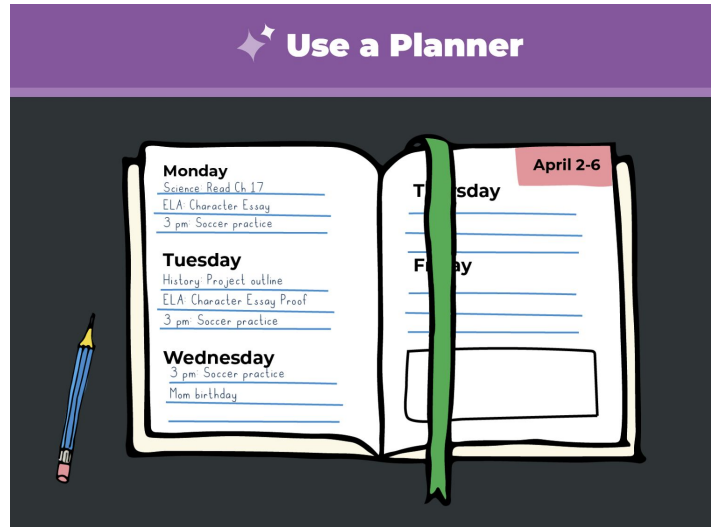
Organization/Time Management

Problem Solving

Supporting Executive Functions

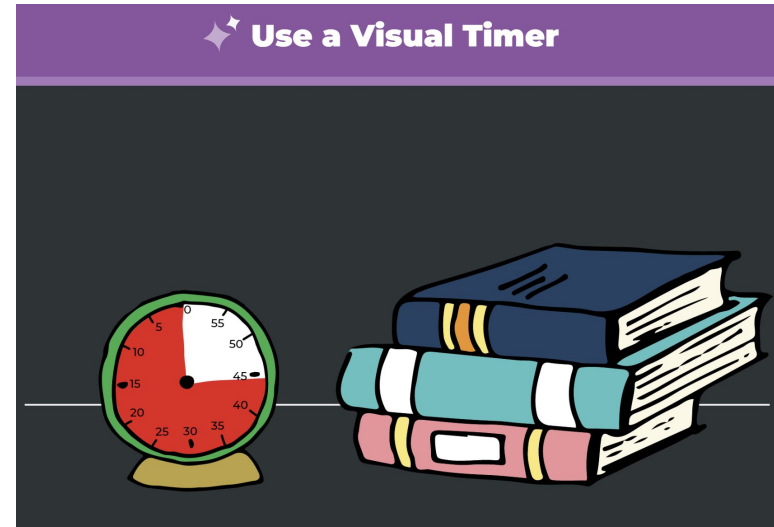
Planning

Use a Planner



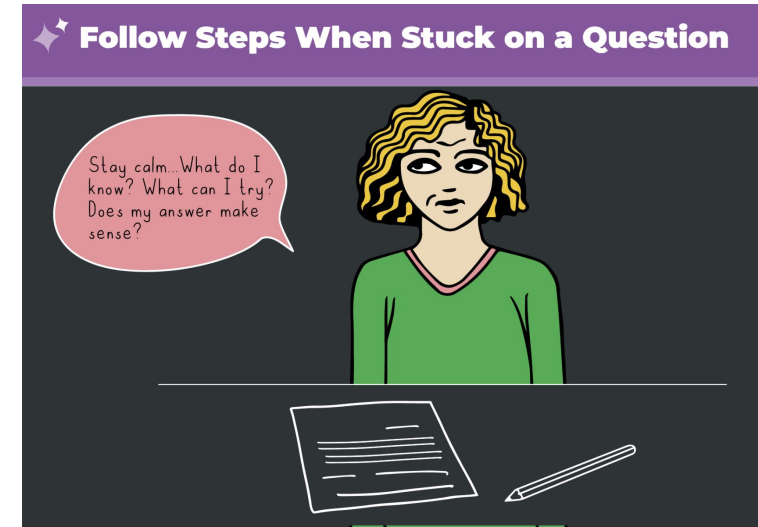
Time Management

Use a Visual Timer



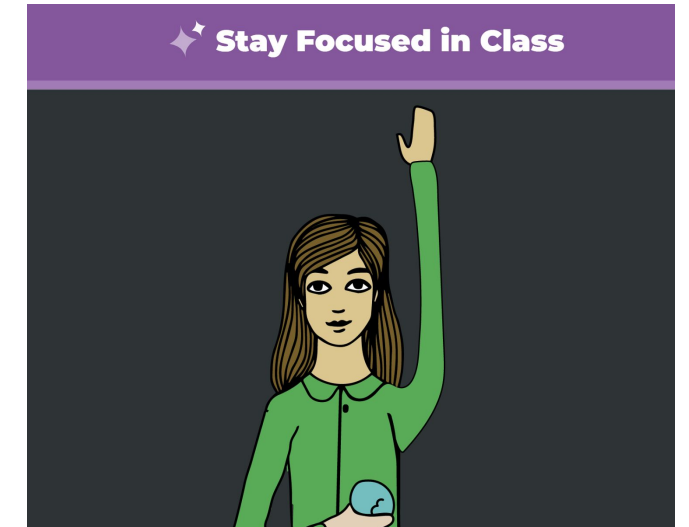
Problem Solving

Follow Steps When Stuck on a Question

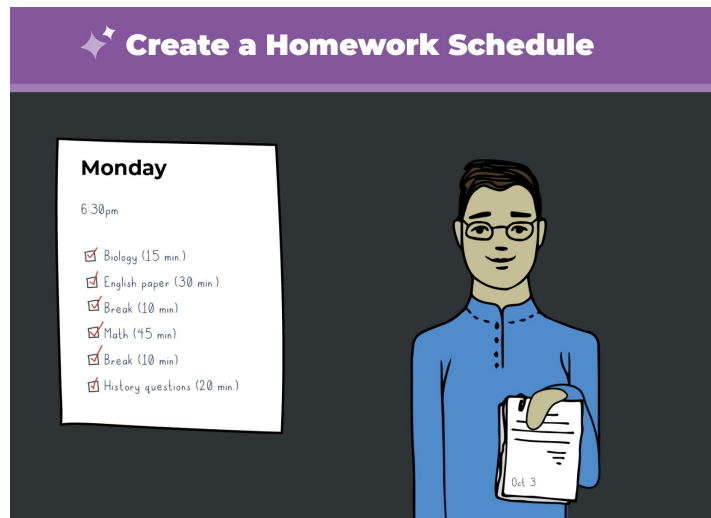


Focus

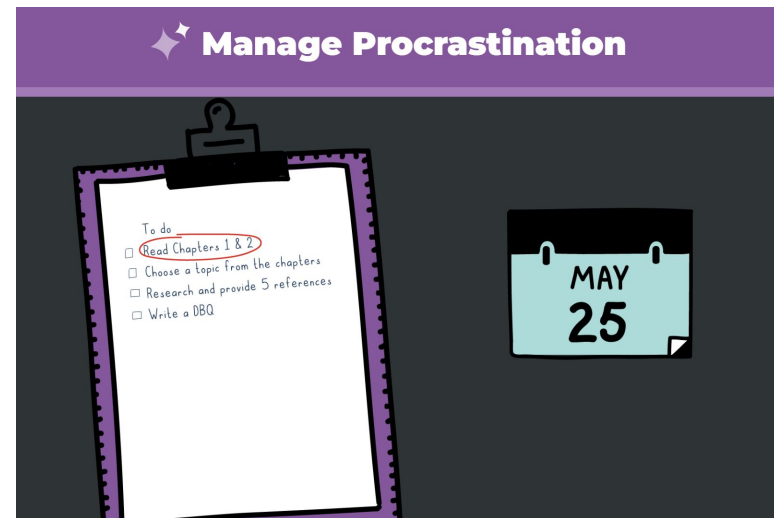
Stay Focused in Class



Create a Homework Schedule



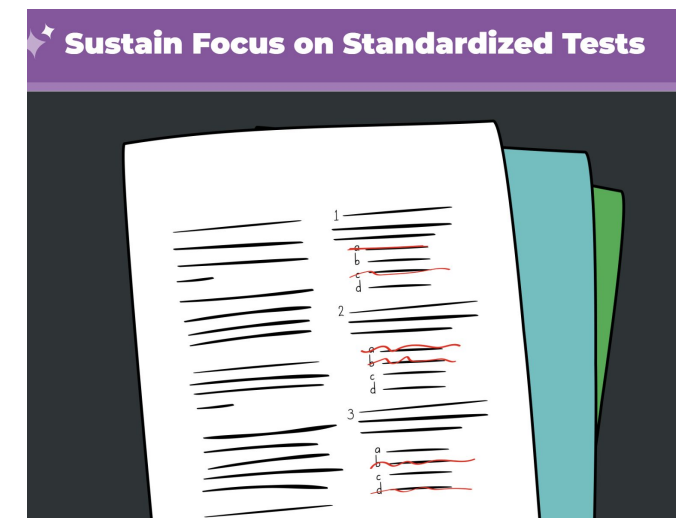
Manage Procrastination



Prioritize Tasks



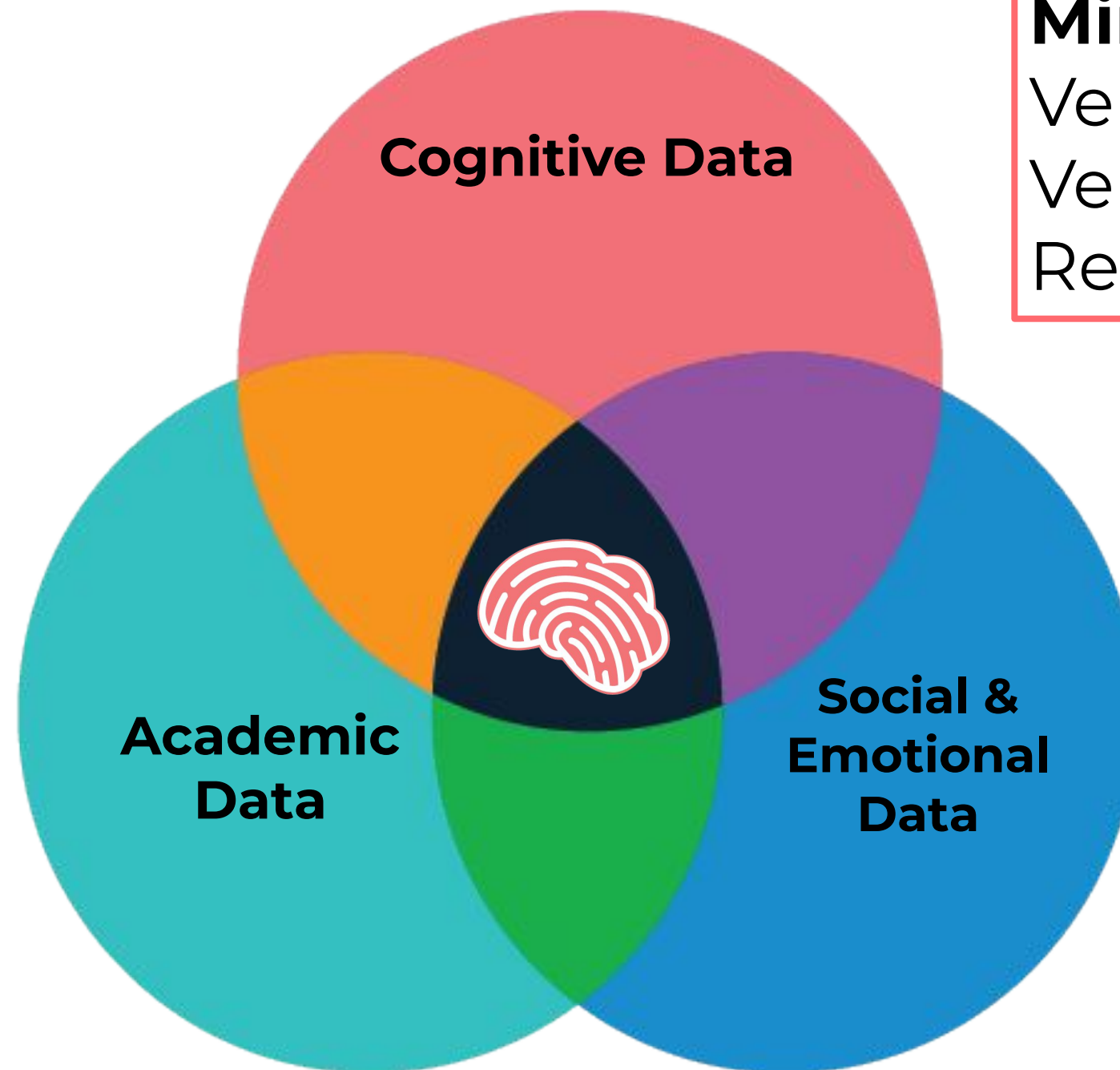
Sustain Focus on Standardized Tests





Case Studies

Case Study 1: Challenge with Abstract Reasoning - 9th grade boy



MindPrint Insight:

Verbal Reasoning low;
Verbal Memory & Spatial
Reasoning stronger

Academic Challenge:

Student struggling
with reading and
writing

SEL Challenge:

Student struggles with
impulse control



MINDPRINT CASE STUDY #1

AT A GLANCE

CHALLENGES

- Behavior Issues
- Reading Comprehension
- Verbal Reasoning
- Visual Memory

STRENGTHS

- Spatial Reasoning
- Verbal Memory
- Faster Pace
- Sensitive/
Compassionate

DIAGNOSIS

ADHD ,Specific Learning Disability in the area of Reading (consistent with Dyslexia because of the phonological deficits)

ESTABLISHED MEANS OF SUPPORT

Student attends Gulliver's EDGE Support Program with smaller classes and has structured directed study with two teachers.

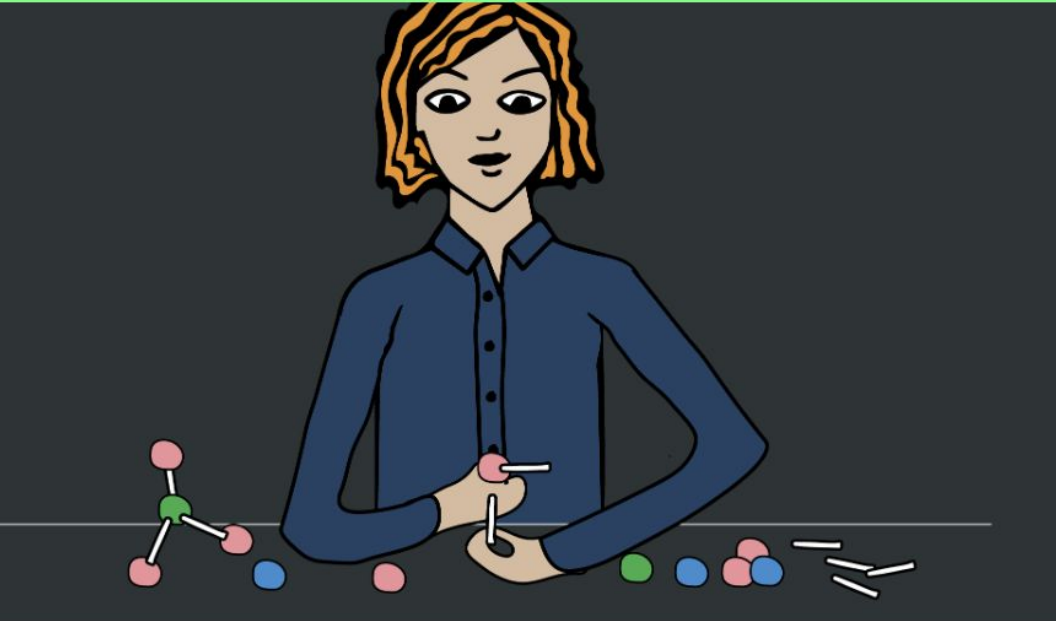
RESULTS

Student has displayed improvements in all areas including his grades, MAP scores, motivation and self-awareness. He still struggles with impulsivity and work completion, but he has been implementing the organizational and study skills that he learned with this program.

Nurture Strengths & Support Needs

<https://www.strategies.mindprintlearning.com/boost/w6x9>

Use Your Stronger Spatial Reasoning



Use pictures or hands-on models to strengthen your understanding.

While reading:

- + **Visualize as You Read:** Read a paragraph or two and then pause and visualize.
- + **Use Pictures:** Pause to look at diagrams and pictures instead of skimming over them.

While problem solving:

- + **Draw Pictures or Models to Solve,** even if it isn't required.
- + Use hands-on math tools like 3-D models or manipulatives.

When learning something new:

- + **Use an Idea Web,** mind map, or visual timeline to help you see connections between concepts instead of just listing ideas.
- + Watch a video lesson, ideally one that includes pictures (e.g. BrainPop).
- + **Try Visual Note Taking.**

<https://www.strategies.mindprintlearning.com/boost/1zvw>

Reading Checklist

Tackle reading assignments with stronger visual skills.

Before Reading

- Read instructions aloud to be sure you don't miss anything.
- Review related materials (e.g., outlines, vocabulary lists, background information).

While Reading

- Visualize as you read each section. Picture the setting, characters, and key details.
- Annotate while reading so you can easily find key words, details, and important ideas you want to remember. Use different color highlighters to group related ideas.

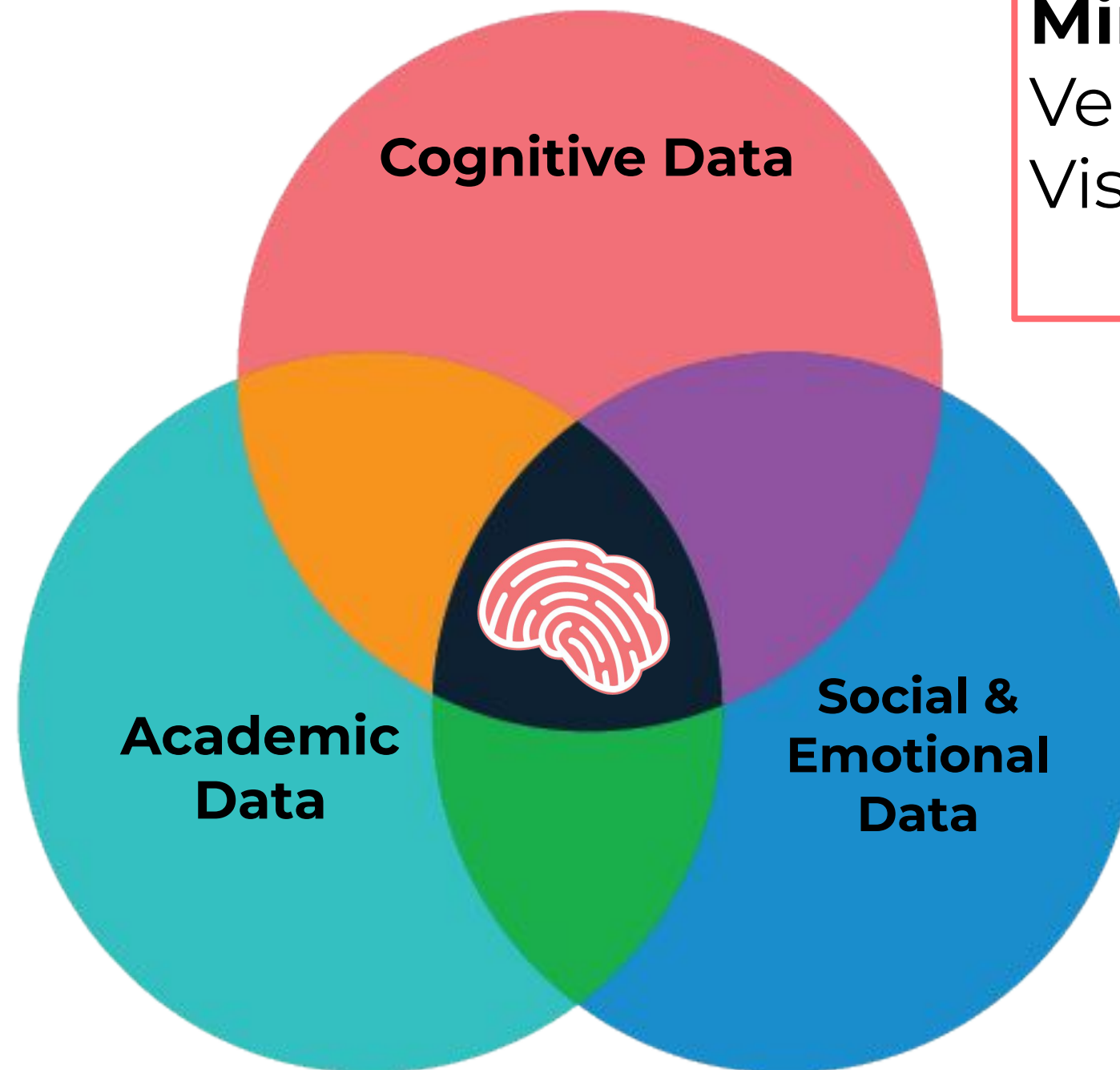
After Reading

- If there are assignment questions, use your page annotations to find the answers.
- If there are no questions, use a graphic organizer to sketch out the main idea and key details.

Stuck While Reading?

- + **Visualize as You Read**
- + **Use an Idea Web to Organize Ideas (Graphic Organizer)**

Case Study 2: 9th grade girl



MindPrint Insight:
Verbal Reasoning &
Visual Memory low

Academic Challenge:
Student struggling
with algebra

SEL Challenge:
Student displays
anxiety and trouble
focusing



MINDPRINT CASE STUDY #2

AT A GLANCE

CHALLENGES

- Impulsivity Issues
- Math
- Verbal Reasoning
- Visual Memory

STRENGTHS

- Spatial Reasoning
- Verbal Memory
- Slower Pace
- Motivation

DIAGNOSIS

No diagnosis. Student displays executive function issues and high anxiety that affect her academic performance

ESTABLISHED MEANS OF SUPPORT

Student attends Gulliver's EDGE Support Program with smaller classes and has structured directed study with two teachers.

RESULTS

Student has displayed improvements in all areas including work completion, less impulsivity and anxiety. She has become more self-aware and has applied the skills in the classroom

Support Executive Function Skills

<https://www.strategies.mindprintlearning.com/boost/yz51>

<https://www.strategies.mindprintlearning.com/boost/ysxq>

Draw Pictures or Models to Solve

Visual
Fraction
Models



Tape
Diagram



Graphs



2D & 3D
Sketches

Use pictures to understand how to solve math problems.

- ✦ If a picture isn't provided, draw one even if it is not required so you can visualize what is being asked.
- ✦ Pick the model that is best for the problem type. Check your notes or textbook if you aren't certain. Common models are bar diagrams, number lines or graphs.
- ✦ Keep the picture simple and neat. Graph paper and colored pencils help. Write your numbers clearly.
- ✦ For word problems, add in each new piece of information as you read through the problem, phrase by phrase.
- ✦ Use your model or picture to write an equation and solve.
- ✦ Add your answer to your picture to confirm your answer makes sense.

Show Your Work

$$\begin{aligned} &3(x + y) + 5x + 2y \\ &3x + 3y + 5x + 2y \\ &8x + 5y \end{aligned}$$

Write out every step of your answer so you can find your own mistakes.

- ✦ Write the problem number, the equation, and leave enough room to write neatly.
- ✦ Write each step clearly and keep the steps organized.
- ✦ Label your final answer.
- ✦ Attach your scrap paper when you hand in your work.

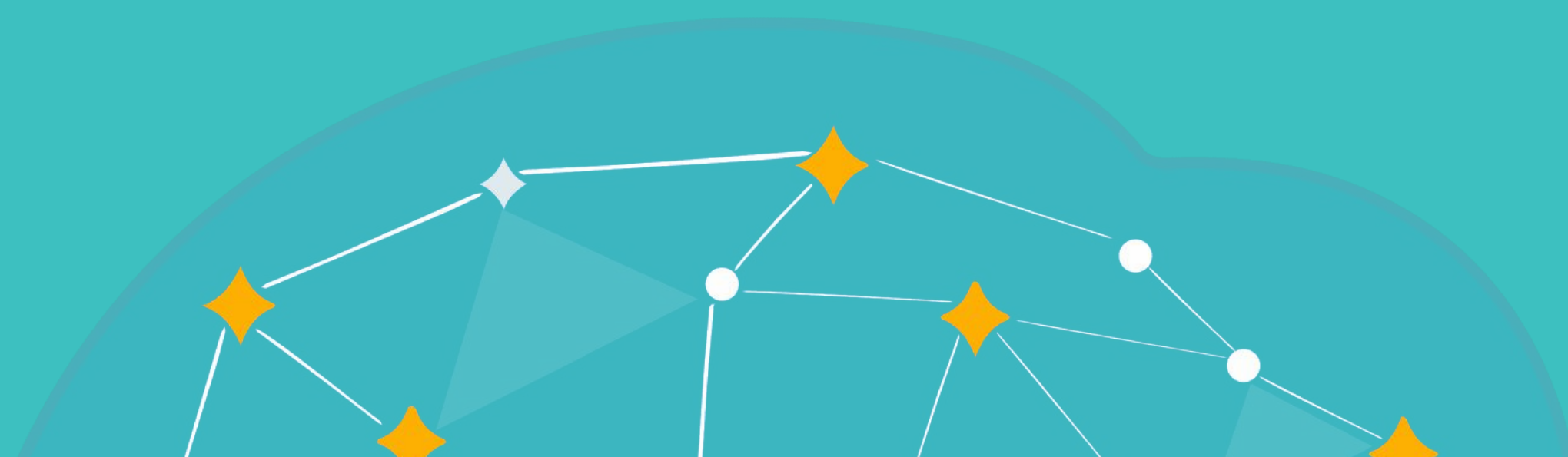


Q & A

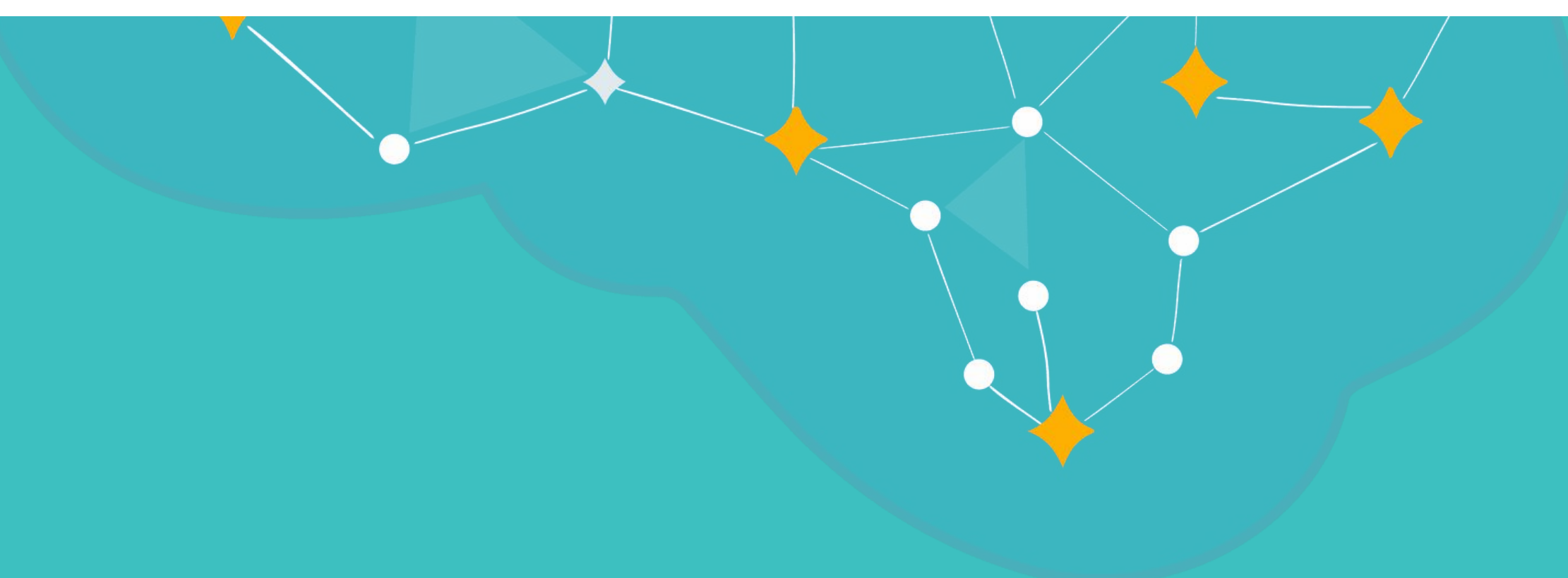
Questions?

Email later

- **Carolina Williams:** cwilliams@gulliverprep.org
- **Nancy Weinstein:** nancy@mindprintlearning.com

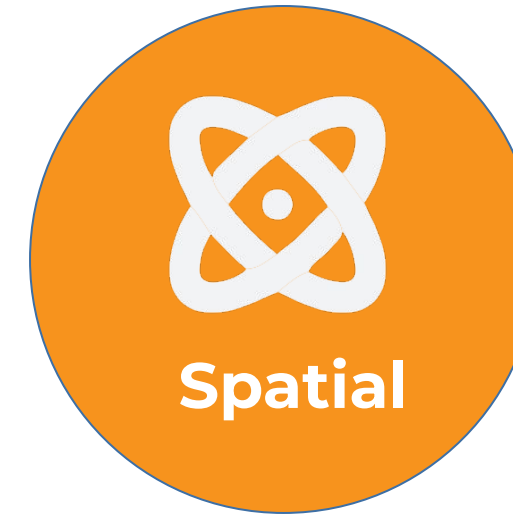


Appendix



Complex Reasoning

How you naturally understand best—Go to your strength when learning is hard



**Understand
more easily**

- **Reading**
- **Listening**
- **Elaborating**

- **Concept first, then details**
- **Diagrams, charts, numbers**

- **Pictures, images, models**
- **See it, Try it**

Long-Term Memory

How you naturally remember best — Lean your strength when you need to be efficient



When

- **Vocabulary**
- **Factual information**
- **Stories**

- **Pictures**
- **Math formulas**
- **Geometry**

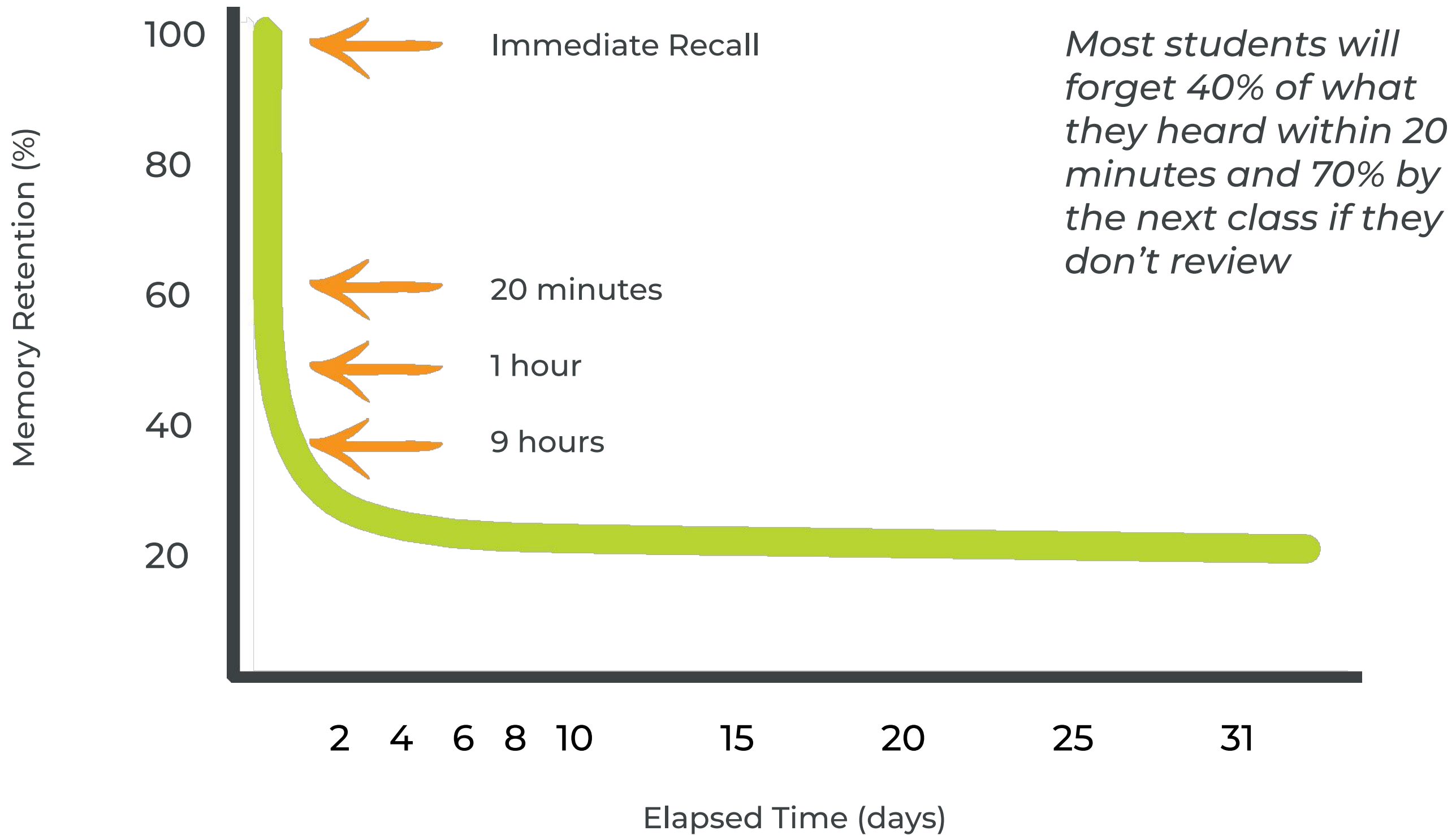
How

- **Words, words, words**
- **Read it out loud**
- **Describe it**

- **Images/Colors**
- **Look at the pictures**
- **Draw a picture or visualize**

Science of Memory

AKA the "Forgetting Curve"



Cognitive Assessment

How Students Learn &
What They Need Most

Developed at University of
Pennsylvania's Perelman School of
Medicine & National Institute of
Mental Health

- Online group administration
- Self-Administered, self-paced
- One hour
- Grades 3-12

Use Strategies

Prioritized for You: Student Profile

FREE to You:

<https://www.strategies.mindprintlearning.com/>

Reading & Writing

Subject	Recommended Strategies
Lesson 3 - MindPrint Student Learner Profile: Discovering Your Reasoning Strengths	+ Use Your Stronger Visual Reasoning
Lesson 3 - MindPrint Student Learner Profile: Discovering Your Memory Strengths	+ Use Your Stronger Verbal Memory
Lesson 4 - Memorizing for Efficiency	+ Space Out Studying + Say it Aloud to Remember + Active Recall - Quiz Yourself to Study
Lesson 5 - Homework: Organizing for Success	+ Create a homework schedule + Use a Planner + Homework Checklist
Lesson 6 - Reading: Managing Challenging Texts	+ Use an Idea Web to Organize Ideas (Graphic Organizer) + Visualize as You Read
Lesson 7 - Pacing: There's no Prize for Finishing First	+ Be Aware of Your Pacing - Working Too Fast + Check Your Math Work + Writing Checklist
Lesson 8 - Math: Using Your Strengths in Problem Solving	+ Draw Pictures or Models to Solve + Word Problem Strategies
Lesson 9 - Focus: Paying Attention in Class	+ Strategies to Stay Focused in Class
Lesson 10 - Test Taking: Optimizing Your Success	+ Make a Test Plan + "Throw Away" Test Anxiety

Re-read & Re-state Out Loud

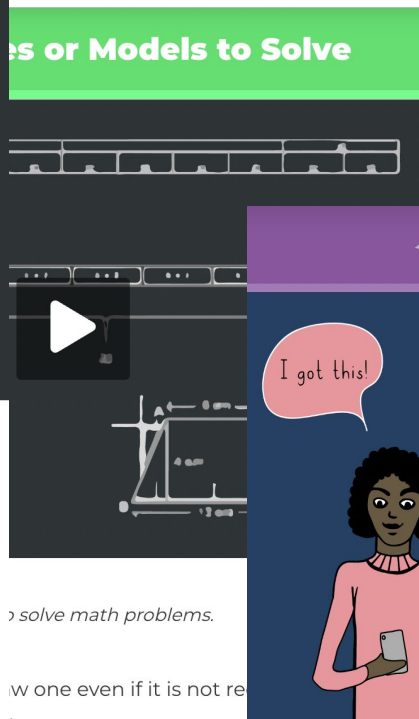


Re-read if you don't understand or remember what you read.

- + Go back to where you got lost or confused and re-read that part out loud, slowly. You might need to re-read some sentences several times.
- + Look up words you don't know, especially if they affect the meaning of the section.
- + Re-state the confusing part in your own words to be sure you understand. Jot your summary in the margin or **Annotate While Reading** so you can remember it later.

Math

Draw Pictures or Models to Solve



to solve math problems.

work one even if it is not re-

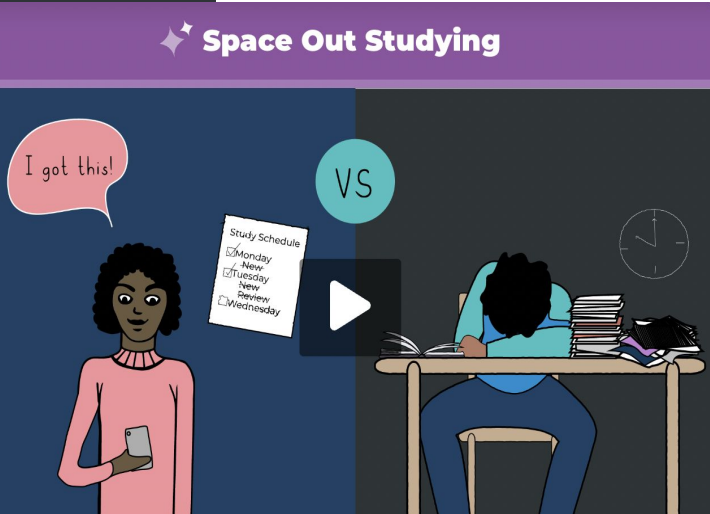
or the problem type. Check
Common models are b

number lines or graphs.

- + Keep the picture simple and neat. Graph paper and c
Write your numbers clearly.
- + For word problems, add in each new piece of inform
through the problem, phrase by phrase.

Study Skills/SEL

Space Out Studying



Study a little each day, rather than cramming, to remember better.

- + Plan to study 15-20 minutes every day for 5 days, instead of waiting until the night before the test.
- + Put that study time in your homework planner, just as you would any homework assignment.
- + Start each session by reviewing what you already studied the day(s) before. Then add on the new information.
- + Don't spend much time re-reading your notes or the textbook. Instead, re-state your notes or summarize what you read in your own words.

Taking the MindPrint

- URL:
trial.mindprintlearning.com/register
Passcode: 632e1a1d40a05
- PLEASE provide a *valid personal email* to retrieve your confidential results