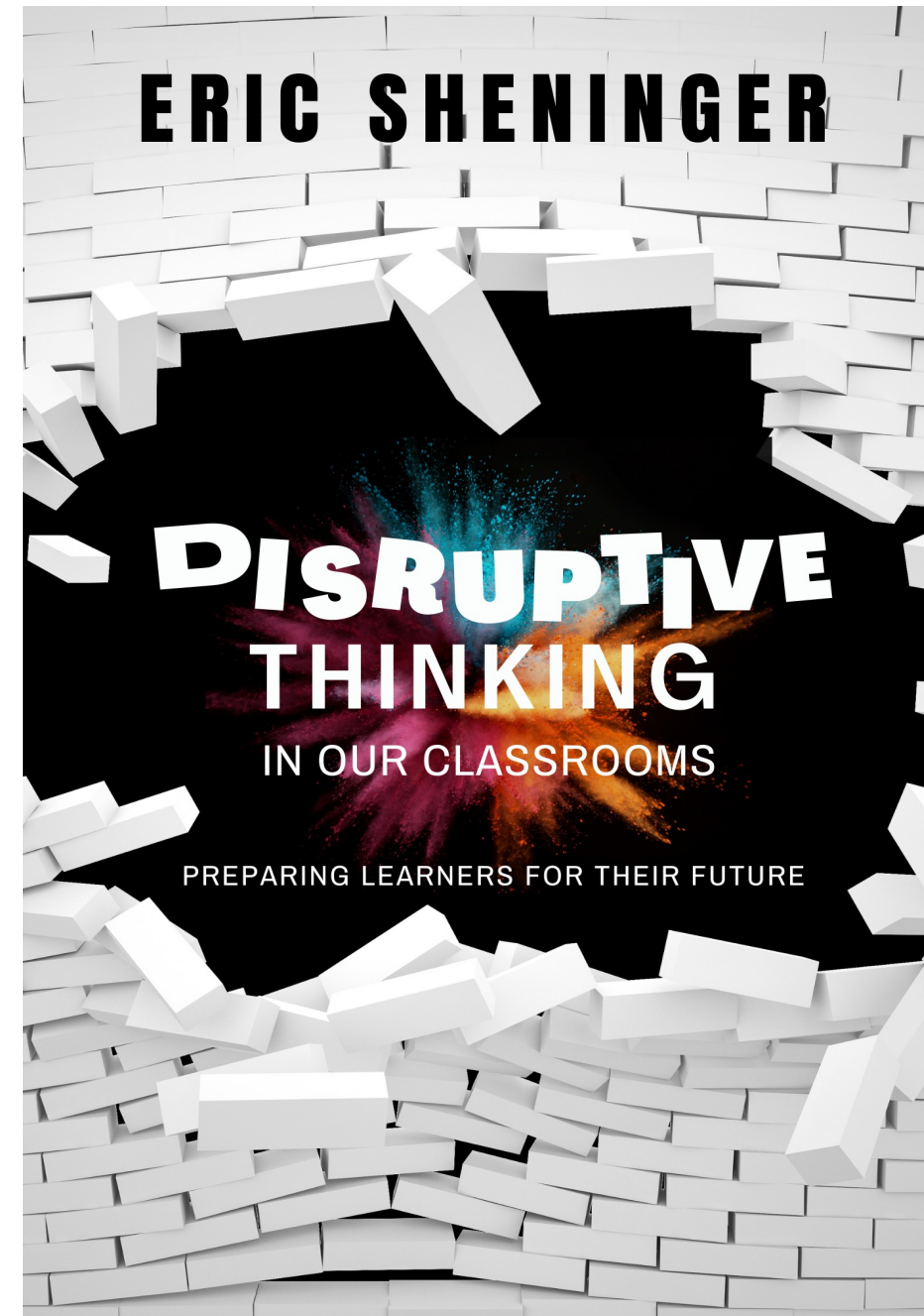


Addressing the Needs of Learners in a Disruptive World: Part 1

Eric Sheninger – Associate Partner
Twitter @E_Sheninger
ericsheninger.com
#DisruptiveThink



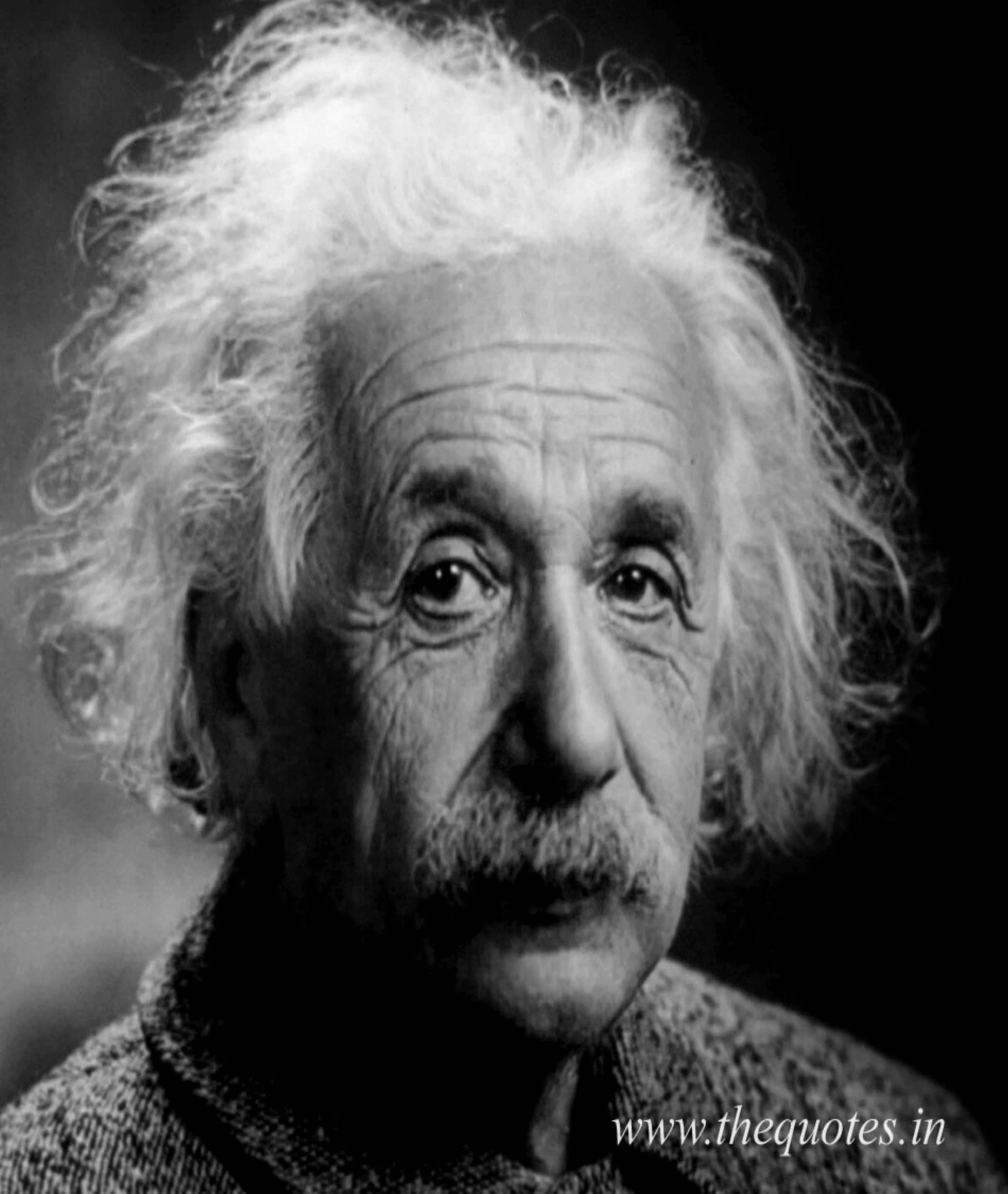
 International Center for
Leadership in Education®

From Houghton Mifflin Harcourt.



#DisruptiveThink

Connect with me @E_Sheninger



Insanity: doing the same thing
over and over again and expecting
different results.

Albert Einstein

#DisruptiveThink



“The Comfort Zone”



1 NEW
DEFINITION
IS ADDED ON
URBAN

1,600+
READS ON
Scribd.

13,000+ HOURS
MUSIC
STREAMING ON
PANDORA

12,000+
NEW ADS
POSTED ON
craigslist

370,000+ MINUTES
VOICE CALLS ON
skype™

98,000+
TWEETS

320+
NEW
twitter
ACCOUNTS

100+
NEW
Linked 
ACCOUNTS

1 associated content
NEW
ARTICLE IS
PUBLISHED

6,600+
NEW
PICTURES ARE
UPLOADED ON
flickr™

50+
WordPress
Downloads

695,000+
facebook.
STATUS
UPDATES

125+
PLUGIN
DOWNLOADS

510,040
COMMENTS

79,364
**WALL
POSTS**

1,700+
Firefox
DOWNLOADS

694,445
**SEARCH
QUERIES**

168 MILLION
EMAILS
ARE SENT

**60+
NEW
BLOGS**

**1,500+
BLOG
POSTS**

70+ DOMAINS REGISTERED

600+
NEW
VIDEOS

100+
com
40+
YAHOO! ANSWERS

13,000+
iPhone
APPLICATIONS
DOWNLOADED

20,000+
NEW
POSTS ON
tumblr.

New
Craigslist
Ads



IN
60
SECONDS...

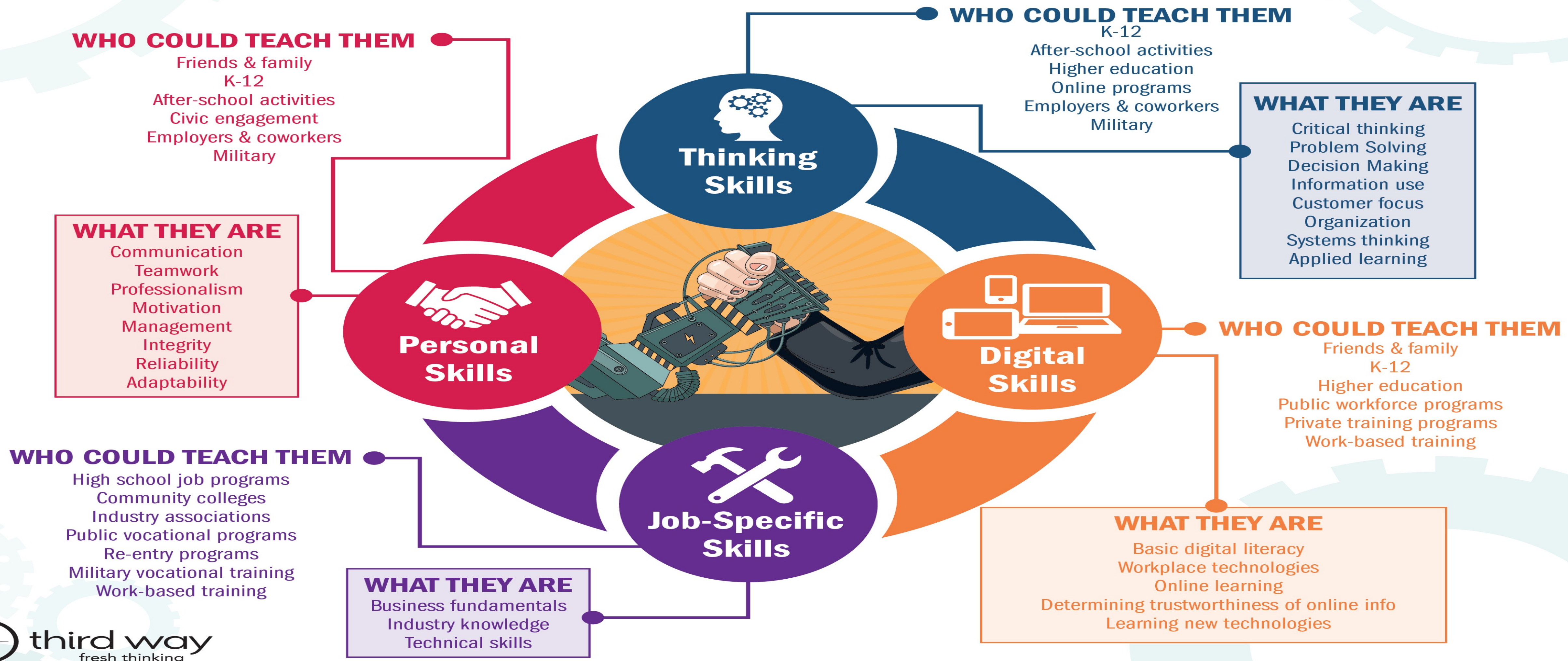
QUESTIONS ASKED ON THE INTERNET...













**25+ HOURS
TOTAL
DURATION**

AUTOMATE THIS

The Skills People Need to Compete in the Digital Economy, and Who Could Teach Them

The coming wave of automation does not mean we need to do away with the concept of working for a living—it means we need to upskill our workforce so Americans can compete and succeed in the new economy. We need to leverage the many places people learn to ensure workers develop the four types of skills they'll need to face off with robots—and win.















	First Industrial Revolution	Fourth Industrial Revolution
Learning Objectives	Mastery of basic skills and knowledge (e.g., reading, math) 	Development of whole person across multiple intelligences (e.g., emotional, intellectual, social) 
Role of Educator	Expert 	Facilitator 
Learner Experience	`Factory model' - Passive, structured, directed, en masse 	`Custom model' - Active, self-directed, exploratory 
Target Age	K-12 	Lifelong learning 
Expertise	“Teacher knows best” 	“Anyone can teach” 
Access	Physical classroom 	Anytime, anywhere, any device 

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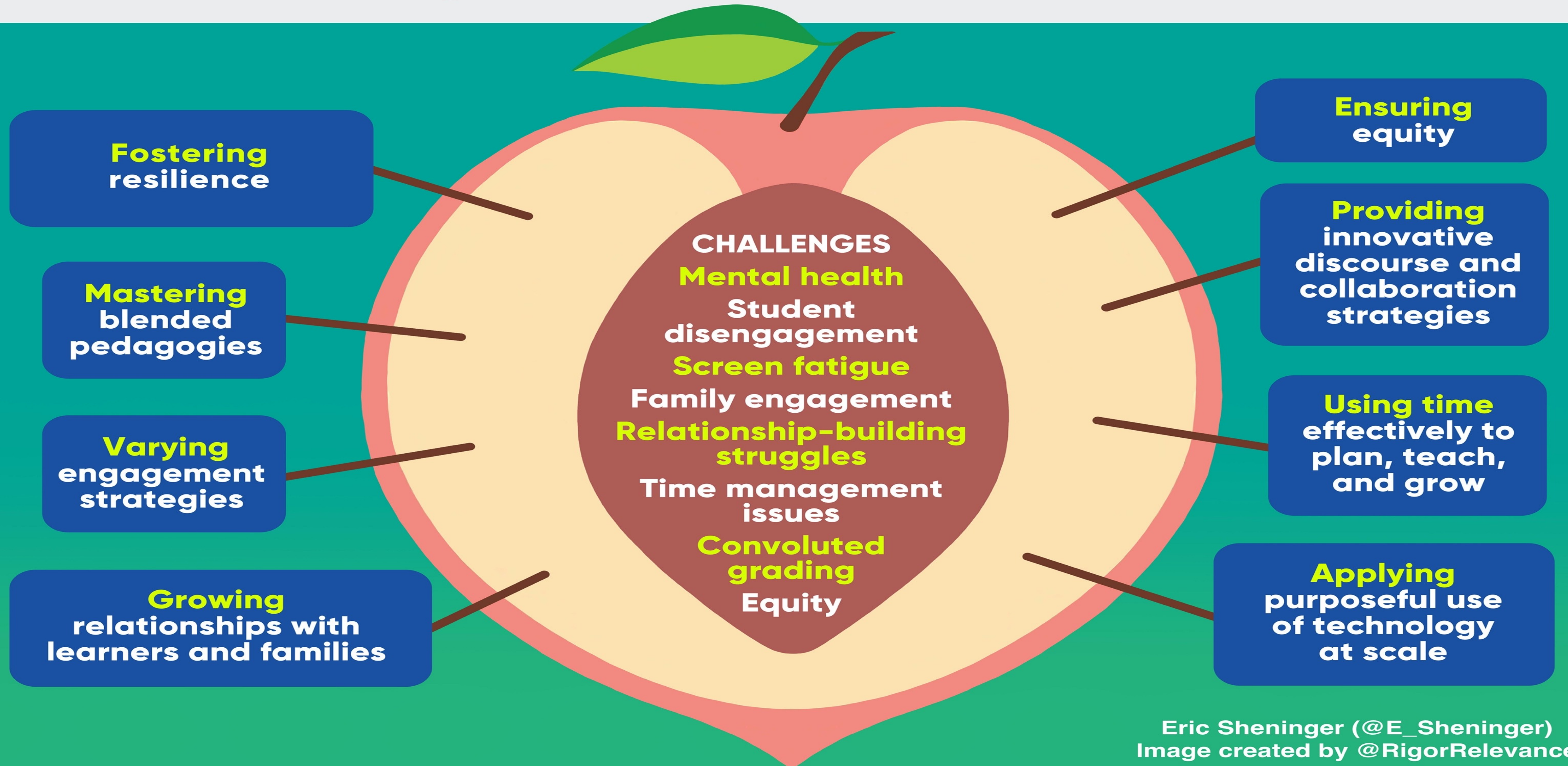
Where does the culture of your school(s) fit into each of these categories and why? Think about the evidence you have to support your response. Explain what needs to happen to make needed shifts to practice that aligns with the 4th Industrial Revolution.



	First Industrial Revolution	Fourth Industrial Revolution
Learning Objectives	Mastery of basic skills and knowledge (e.g., reading, math) 	Development of whole person across multiple intelligences (e.g., emotional, intellectual, social) 
Role of Educator	Expert 	Facilitator 
Learner Experience	`Factory model` - Passive, structured, directed, en masse 	`Custom model` - Active, self-directed, exploratory 
Target Age	K-12 	Lifelong learning 
Expertise	“Teacher knows best” 	“Anyone can teach” 
Access	Physical classroom 	Anytime, anywhere, any device 



Pit to Peach: Challenges Create Opportunities



If you are still trying to
figure things out don't
worry because we all are.



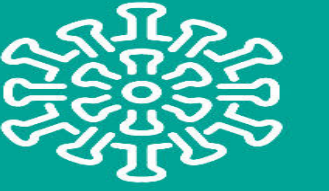
**The
Guardian**

#ACELNC



@e_sheninger

Pandemic Lessons to Drive Change



Personalized Learning Works

It's an important step toward **equitable learning**.



Infrastructure Matters

PPE, Wi-Fi, devices, flexible environments are non-negotiables.



People Need People

Learning must involve interaction and collaboration.



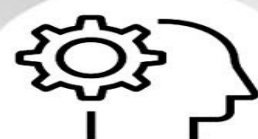
Time is Fluid

Innovate with time allocation; don't let old routines dictate practices.



It's OK to Break the Mold

Embracing innovative learning means changing our ways.



An LMS is Vital

It helps ensure quality and continuity during any experience.



Continuous Improvement is a Must

Leaders and teachers must always be **improving**.



Well-Being First

Self-care and caring for others in need are requisites for learning.



The Elements of Change Leadership



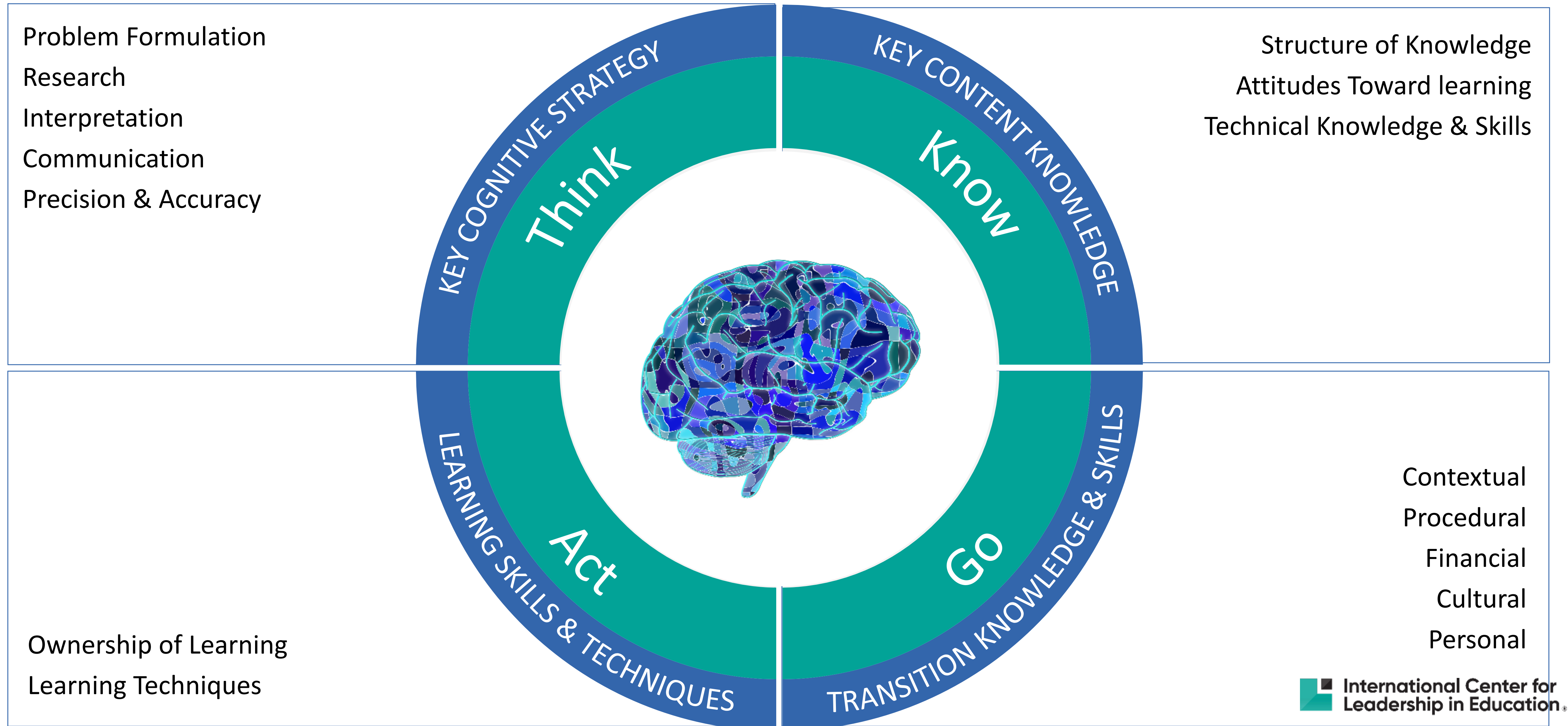
STRATEGIC PLANNING CYCLE



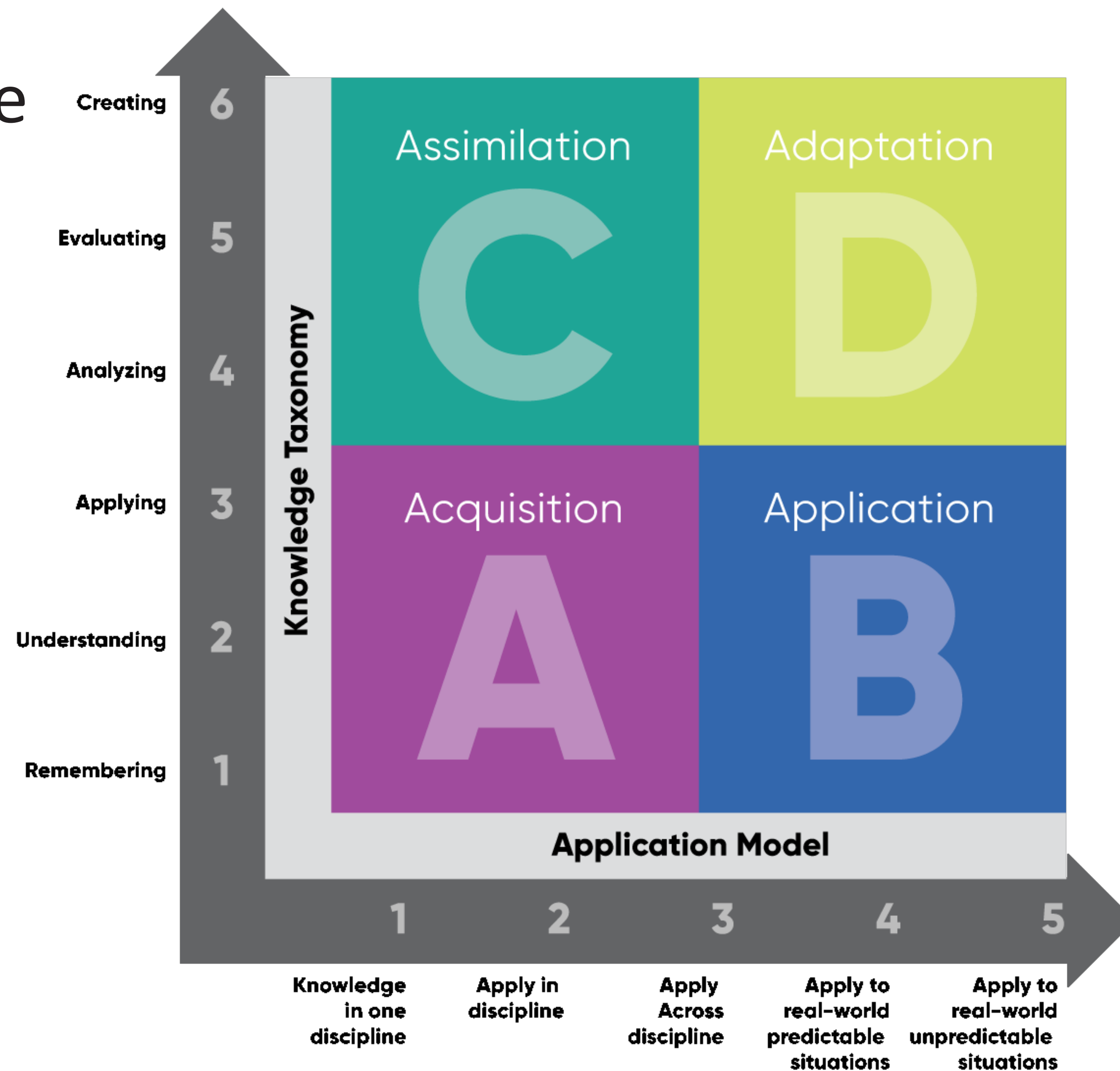


Providing What Learners Really Need

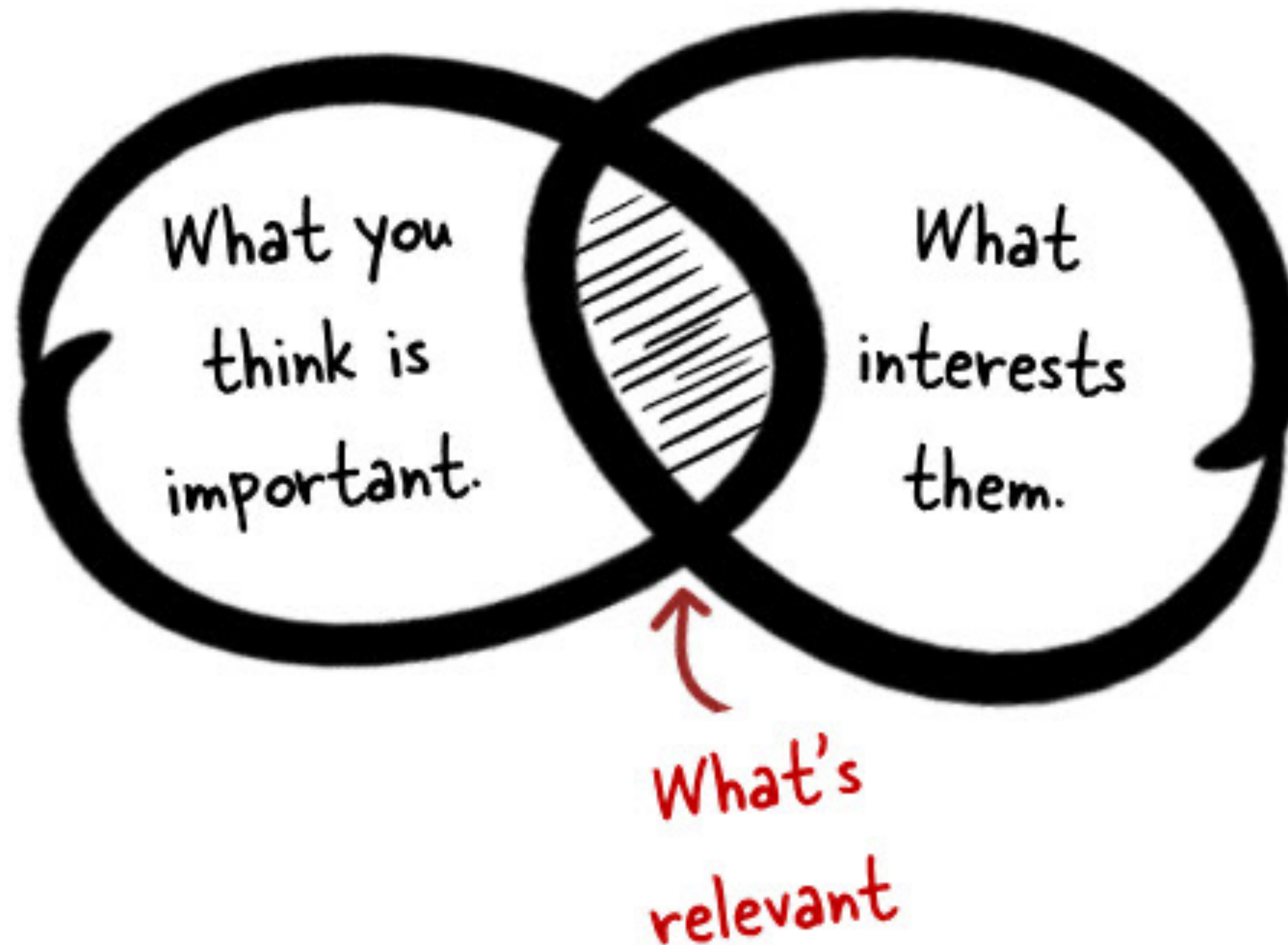
Four Keys to College and Career Readiness



Rigor/Relevance Framework®



#DisruptiveThink



#DisruptiveThink

Relevance is the Purpose of the Learning



ACQUIRE KNOWLEDGE

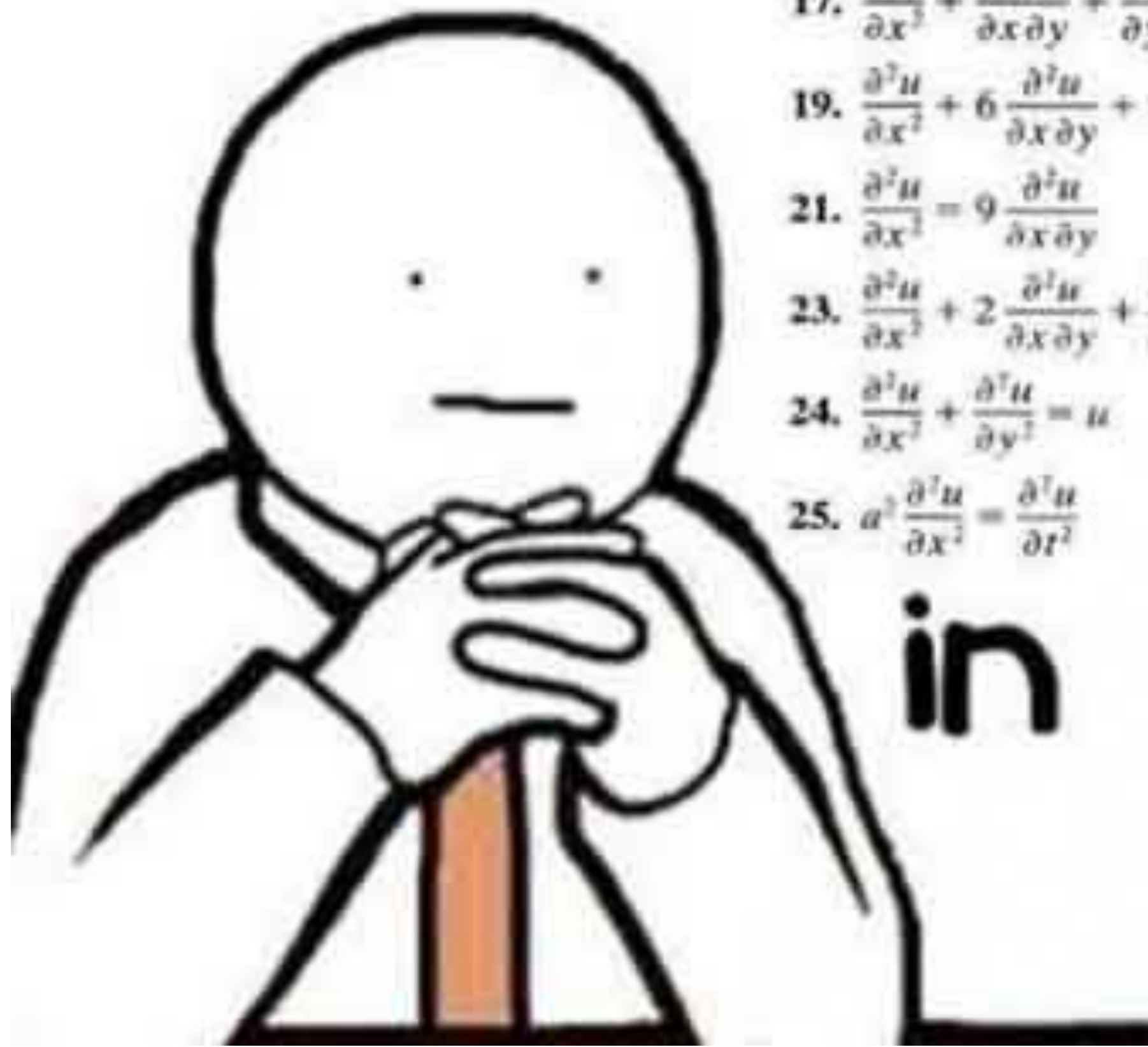
APPLY KNOWLEDGE

INTERDISCIPLINARY

REAL WORLD PREDICTABLE

REAL WORLD UNPREDICTABLE

I'm still waiting for the
day that I will actually use



17. $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial x \partial y} + \frac{\partial^2 u}{\partial y^2} = 0$

18. $3 \frac{\partial^2 u}{\partial x^2} + 5 \frac{\partial^2 u}{\partial x \partial y} + \frac{\partial^2 u}{\partial y^2} = 0$

19. $\frac{\partial^2 u}{\partial x^2} + 6 \frac{\partial^2 u}{\partial x \partial y} + 9 \frac{\partial^2 u}{\partial y^2} = 0$

20. $\frac{\partial^2 u}{\partial x^2} - \frac{\partial^2 u}{\partial x \partial y} - 3 \frac{\partial^2 u}{\partial y^2} = 0$

21. $\frac{\partial^2 u}{\partial x^2} = 9 \frac{\partial^2 u}{\partial x \partial y}$

22. $\frac{\partial^2 u}{\partial x \partial y} - \frac{\partial^2 u}{\partial y^2} + 2 \frac{\partial u}{\partial x} = 0$

23. $\frac{\partial^2 u}{\partial x^2} + 2 \frac{\partial^2 u}{\partial x \partial y} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial u}{\partial x} - 6 \frac{\partial u}{\partial y} = 0$

24. $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = u$

25. $a^2 \frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial t^2}$

26. $k \frac{\partial^2 u}{\partial x^2} = \frac{\partial u}{\partial t}, \quad k > 0$

in real life

DISRUPTIVE THINKING

LEVEL

4

How would you design a...to...?

How would you compose a song about...?

How would you rewrite the ending to the story?

What would be different today, if that event occurred as...?

Can you see a possible solution to...?

How could you teach that to others?

If you had access to all resources, how would you deal with...?

What new and unusual invention would you create for...?

What authentic solution can develop to solve this problem?

Can you predict what will happen next and why?

LEVEL

3

How are these similar/different?

How is this like?

What's another way we could say/explain/express that?

What do you think are some reasons/causes that...?

Why did.....changes occur?

What is a better solution to...?

How would you defend your position about that?

LEVEL

2

Would you do that?

Where will you use that knowledge?

How does that relate to your experience?

What observations relate to...?

Where would you locate that information?

How would you illustrate that?

How would you interpret that?

How would you collect that data?

How do you know it works?

LEVEL

1

What is/are...?

How many...?

How do/does...?

What did you observe...?

What else can you tell me about...?

What does it mean...?

What can you recall...?

Where did you find that...?

Who is/are...?

How would you define that in your own terms?

Dale Andre

Seesaw Text Features Scavenger Hunt



Seesaw

Use any non-fiction book to complete the text features scavenger hunt! Put a check next to each task once you have completed it!

1. Find a **photograph** and take a picture. Label the picture with text explaining what the **photograph** is teaching you. -----
2. Find the **table of contents**. Take a video of the table of contents which shows you turning to the different **chapters/headings** in the book. -----
3. Find a **photograph** or an **illustration** with a **caption**. Take a picture of this and draw a circle around the **caption**. Label the picture with text explaining how the **caption** helped you to understand the **photograph** or **illustration**. -----
4. Find a **diagram** with **labels**. Using the draw tool, underline all of the labels. Label the **diagram** with text explaining what the **diagram** is teaching you. -----
5. Find the **glossary** and pick one **Bold print** word. Take a video of yourself reading the word and the definition. Label the video with text explaining why the author might have put that word in the glossary. -----
6. Find the **index** and find a word with the page number of where to find it. Take a video of yourself finding the word/topic in the text. -----

★ Bonus- Find a **time line**, **map**, or **subheading** in a non-fiction book!

View All Pages

March 5 Padlet

Tessa Henry • 12h

Author's point of view

How do you think the author feels about the wildlife in the Mojave Desert? Explain your thinking



Killer Bees 2.5
Steel, Hazel
Math Test Area/per.
Eliza &
Gabriel

DELL

Even Lloyd

FEATURE	Why Was This A Feature Of The Articles of Confederation	Possible Problems with This Feature
Congress did not have the power to draft an army (could only request states to send troops)	So people weren't forced to fight None	They could have small numbers of soldiers
No National Court System	The ruling persisted intolerable acts None	unable to solve problems legally
Any amendments (changes) to the Articles must be approved by all 13 states	Everyone has a say Any act	It will be hard to pass amendments
Congress did not have the power to collect state debts owed to the federal government	They did not have to worry about debts Ten act	Now we would pay the debt.



Scene #1

U.S. Capitol Building -- Washington, D.C.



Security guards were surprised to learn that Neo Eigenvector apparently made copies of Top Secret government files which may expedite the building of a World Conquering Device. In the Senate restroom, police found this note written on a stall.

Welcome to the Matrix of Matrices. I will free your mind. But first I must frustrate my mind and journey to Congress, where I overheard this exchange.. "I can create more complicated meandering square matrices than you!" yells the House. "Wanna bet?" the Senate replies, "My determinant will be bigger than your determinant!!"

$$A = \begin{bmatrix} 2 & 1 \\ 2 & 4 \end{bmatrix} \quad B = \begin{bmatrix} 5 & 0 \\ 0 & 5 \end{bmatrix}$$

Do these operations create possible matrices? What is the determinant?

$$C = \begin{bmatrix} 10 & 6 & 0 \\ 2 & -3 & 5 \end{bmatrix} \quad D = \begin{bmatrix} -8 & -3 & -2 \\ -1 & -4 & 6 \end{bmatrix}$$

Senate $[(A \times C) + 3D] + F$

WORKSPACE (Click to add text)

$$E = \begin{bmatrix} 4 & 3 \\ -1 & 2 \\ 5 & -9 \end{bmatrix} \quad F = \begin{bmatrix} 0 & -7 \\ 5 & 1 \\ 2 & -2 \end{bmatrix}$$

House $[(D + 2C) \times E] - 5B$

WORKSPACE (Click to add text)

A clue for the
Cryptic Text Message

House is Larger



h = its determinant

Senate is Larger



s = its determinant

Neither is Possible



w=0

?

=

?



Scene #4

Smithsonian Museum of Natural History -- Washington, D.C.



Posing as an ordinary tourist, Neo Eigenvector stole the femur of an adult apatosaurus.



Despite popular belief, there is not a treasure map on the back of the Declaration of Independence. However after a little inspection, there is a 4x4 determinant problem doodled by Ben Franklin. Don't believe me? Go see for yourself. *Solve this monster determinant to get your next clue.*

WORKSPACE (Click to add text)

$$\begin{vmatrix} 10 & 7 & -7 & 5 \\ -9 & 0 & 2 & -1 \\ 3 & -3 & 1 & -4 \\ -1 & 8 & 5 & 2 \end{vmatrix}$$

WORKSPACE (Click to add text)

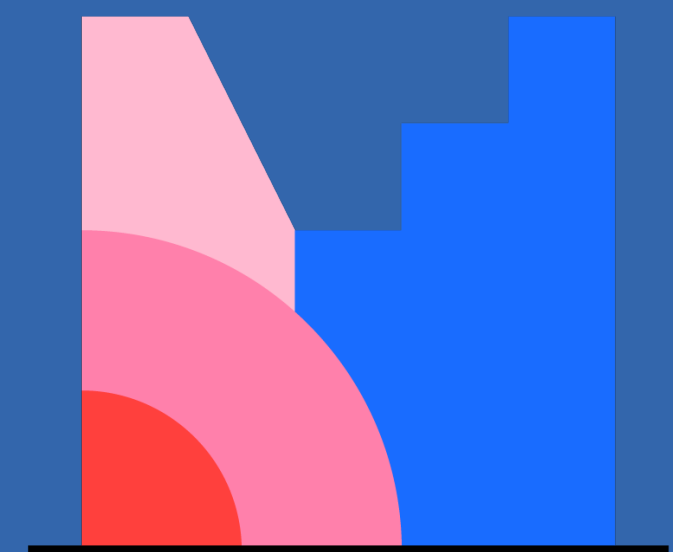
W = the determinant

A clue for the
Cryptic Text Message

WORKSPACE (Click to add text)

W = ?

What does student voice mean to you? Why is it important? How are you implementing it in school or district?



Mentimeter

6 Dimensions — of — Student Voice

Involves all kids in learning process

Fosters active participation

Builds confidence

Promotes open reflection/ collaboration

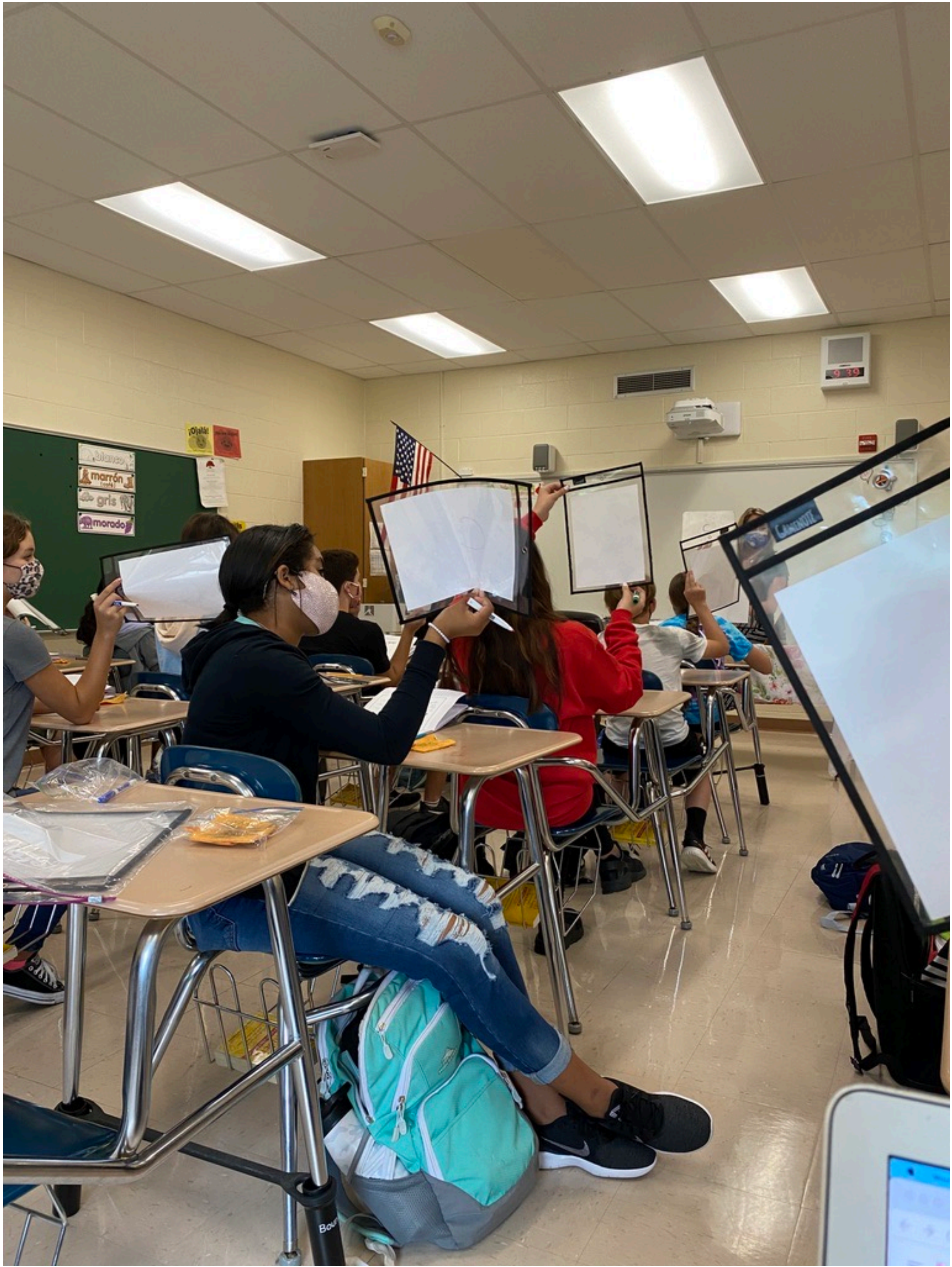
Sets stage for instant feedback

Develops sense of community





#DisruptiveThink



al, failure is not fatal:
to continue that counts.

-Winston Churchill



Journalism Goals for today →

□ Finish Upload Foam Dance Article
-Breanne

Write Quotes - Jaki
Leadership Essay - Jared

Find idea for new
article - Garrett

try to get 150 words
on essay

Find a new
article idea
-Rebecca

Find a picture for article.
Start new article. -Ro

Finish article
-Emma

finish
business a

□ make template
for staff spotlights
-charley

Start faculty
spotlight
-Mal

Finish soccer
article

Get everyone articles
Pick out new pro theme
-Jonah

try to finish
article then
upload
-Colton

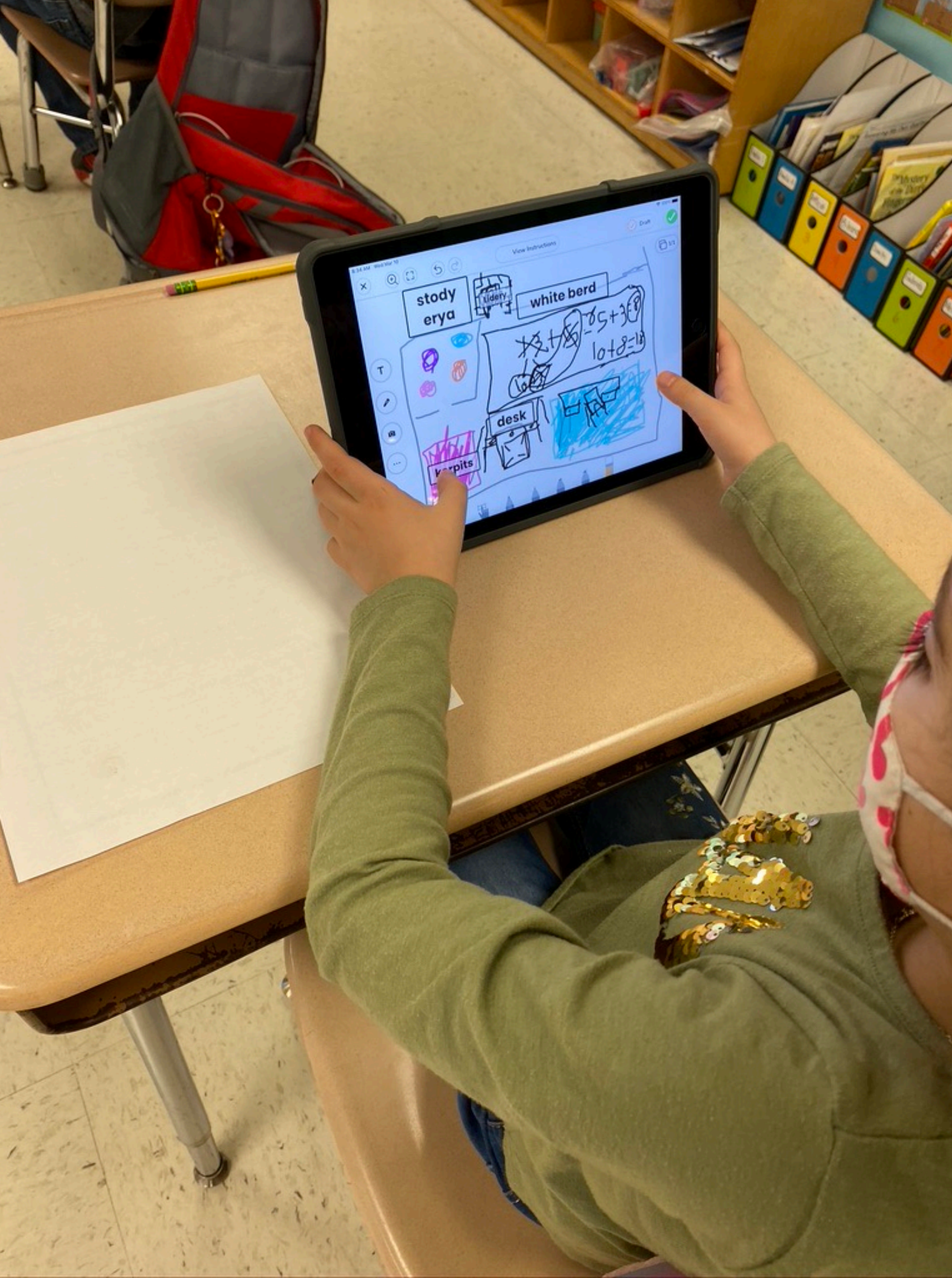
Publish
Article + find
new article idea
-Emma

finish SS. Article

Work on volleyball
senior graphic

Find a new
Article -Ariel

Finish bio form &
start V.Q. essay



Mentimeter



Make an inference in one word what you think this next Module will be about?

Enter a word

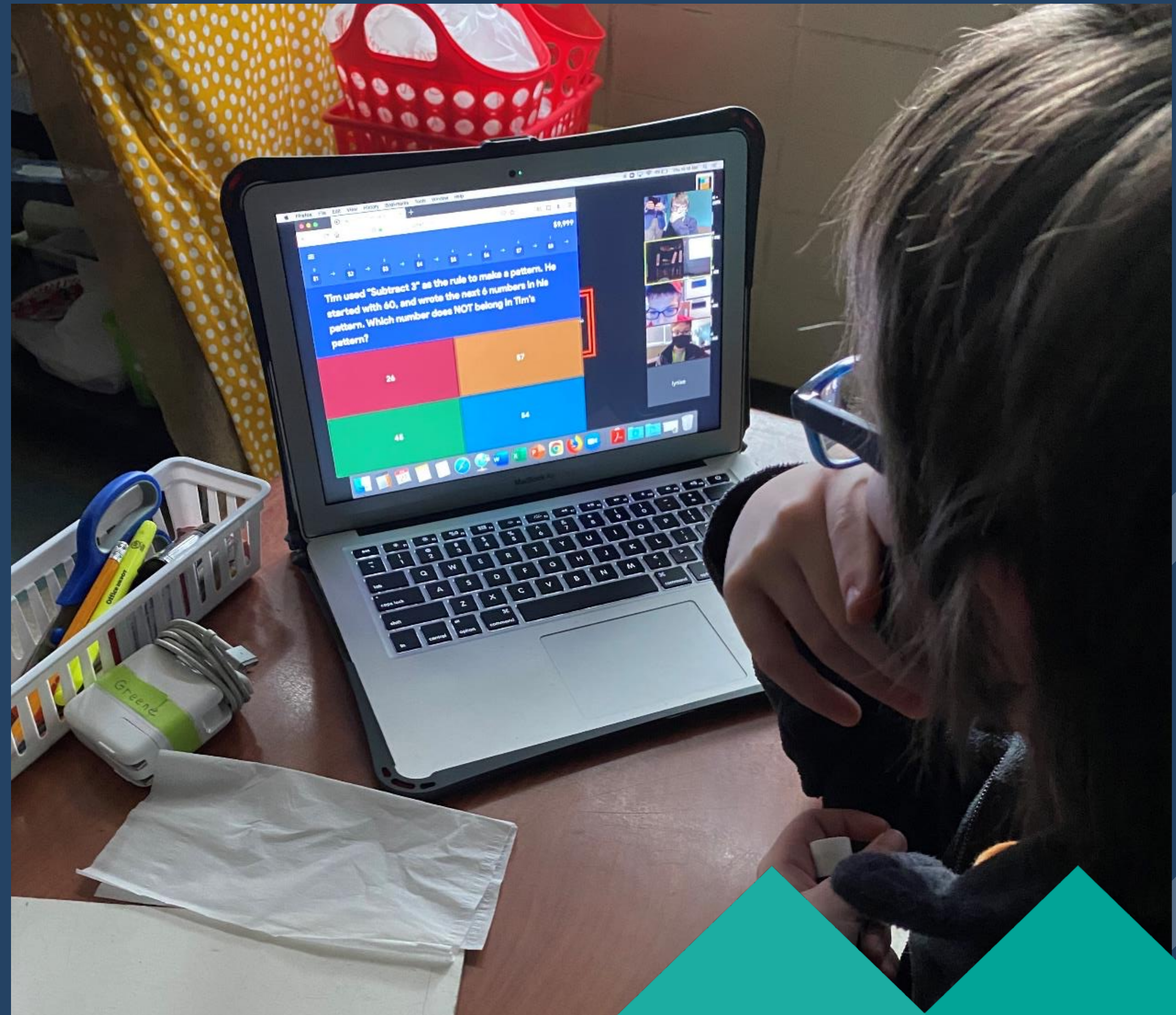
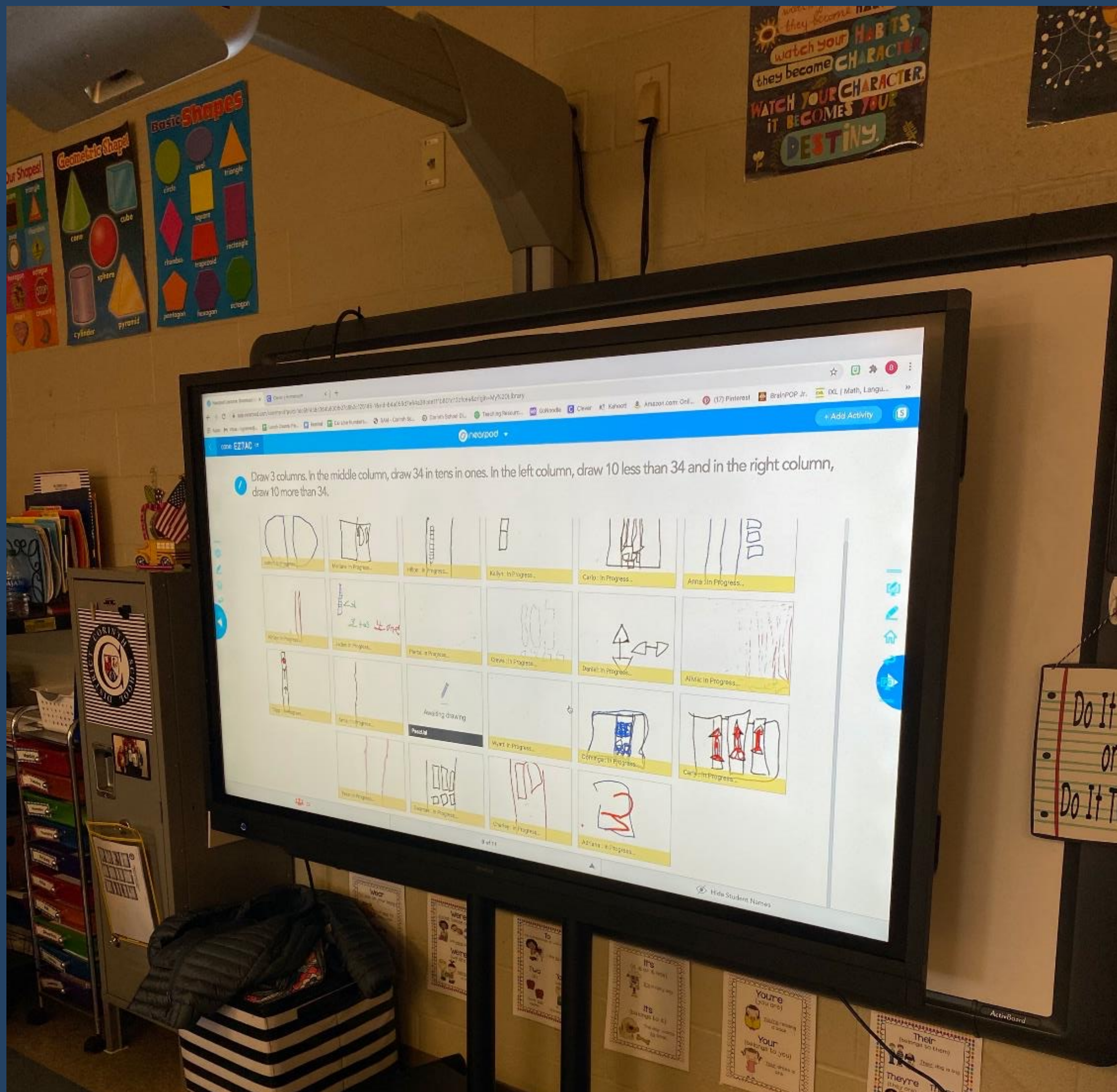
25

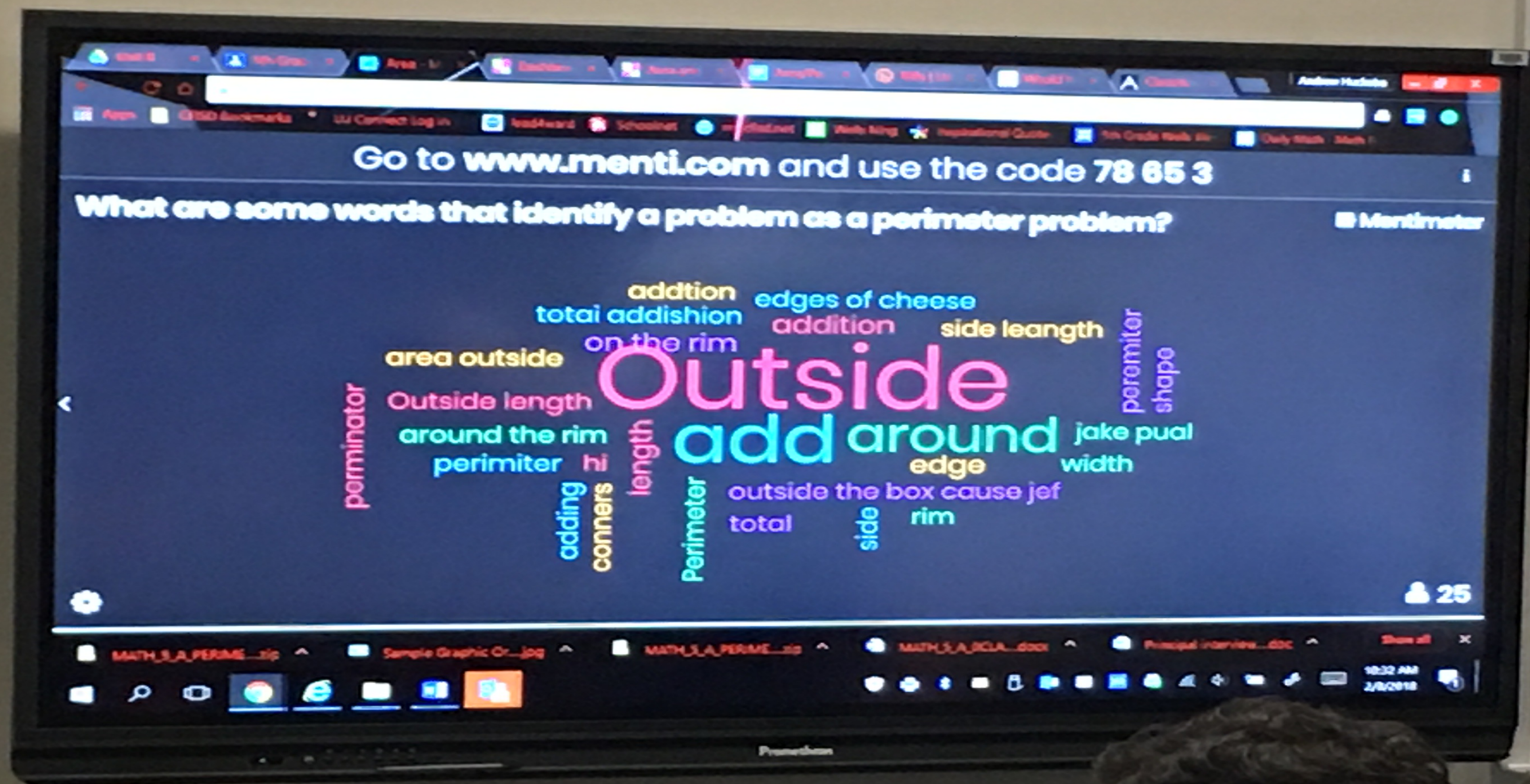
Enter another word

25

You can submit multiple answers

#DisruptiveThink





At A Glance

Monday: Triangles

Tuesday: Quadrilaterals

Wednesday: Quadrilaterals

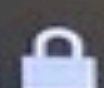
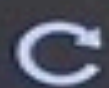
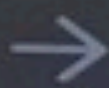
Thursday: Area, Perimeter

Friday: Area, Perimeter



Nearpod Lessons: Downl...

Nearpod Lessons: Downl...



https://app.nearpod.com/command?puid=54529580abe0aa9bb029549e764c5546-1&sid=c9e7cd0ce76fd331d3041f94



CODE: A5XRD



nearpod



What do you already know about the Berlin Wall? Why do you think the landmark is famous? Represent your answer in words, sentences, pictures, and/or symbols.

The Berlin wall was built to separate East and West Berlin. The Berlin wall was up for 28 years before it was torn down.

***** Submitted



Awaiting drawing



Awaiting drawing



Awaiting drawing



Awaiting drawing



Awaiting drawing



Awaiting drawing

The Berlin wall had big watch towers



***** Submitted

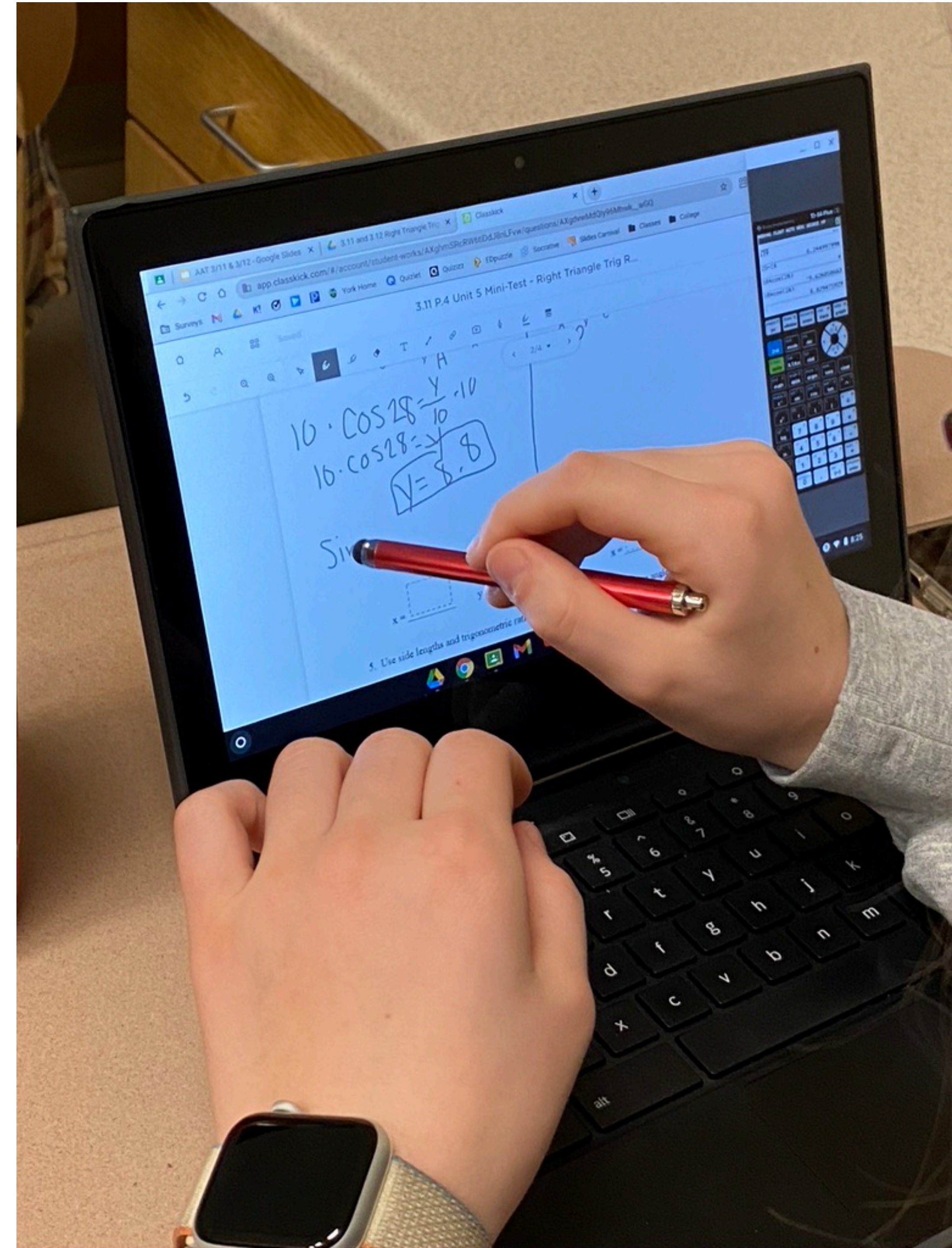
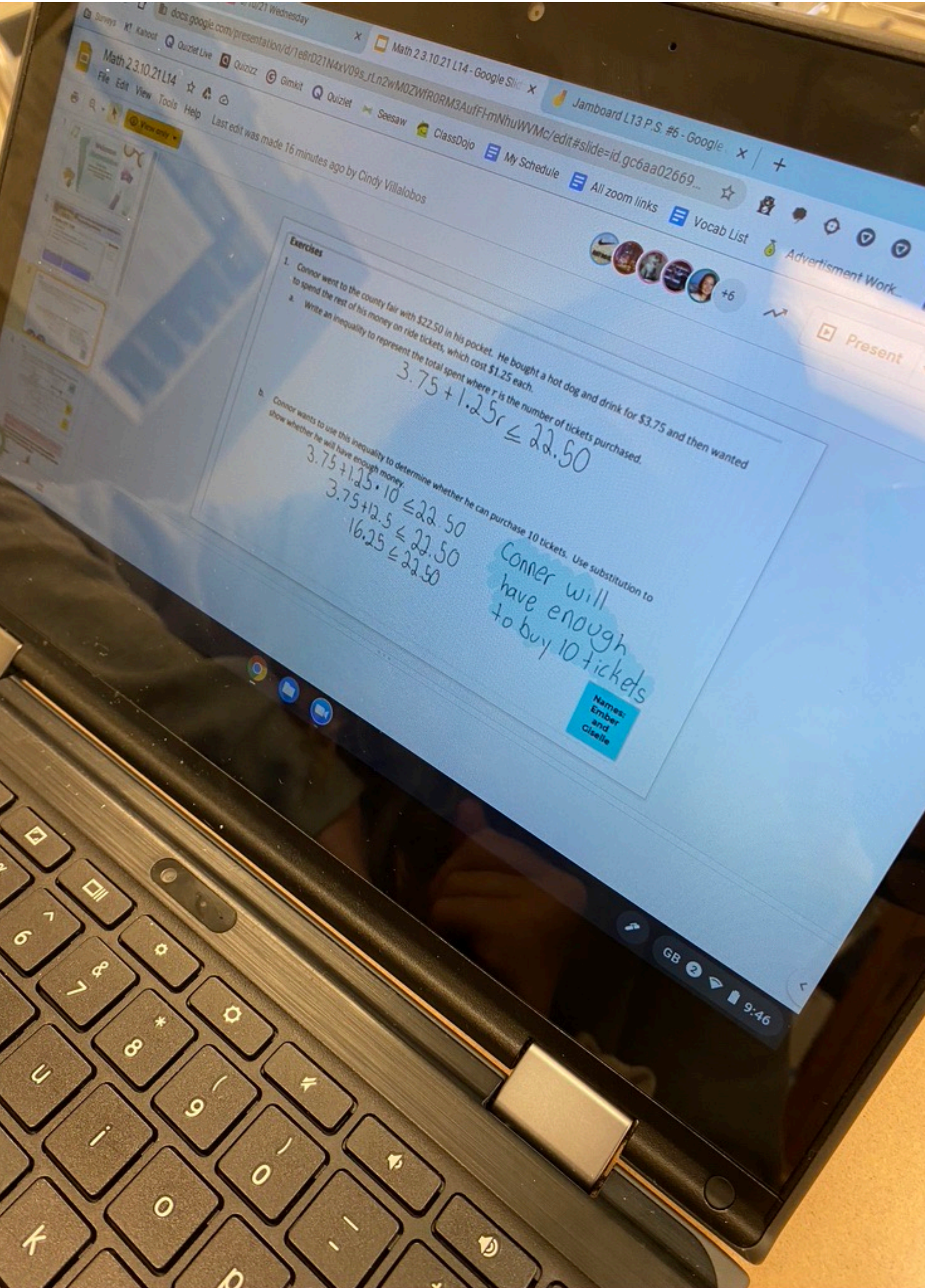


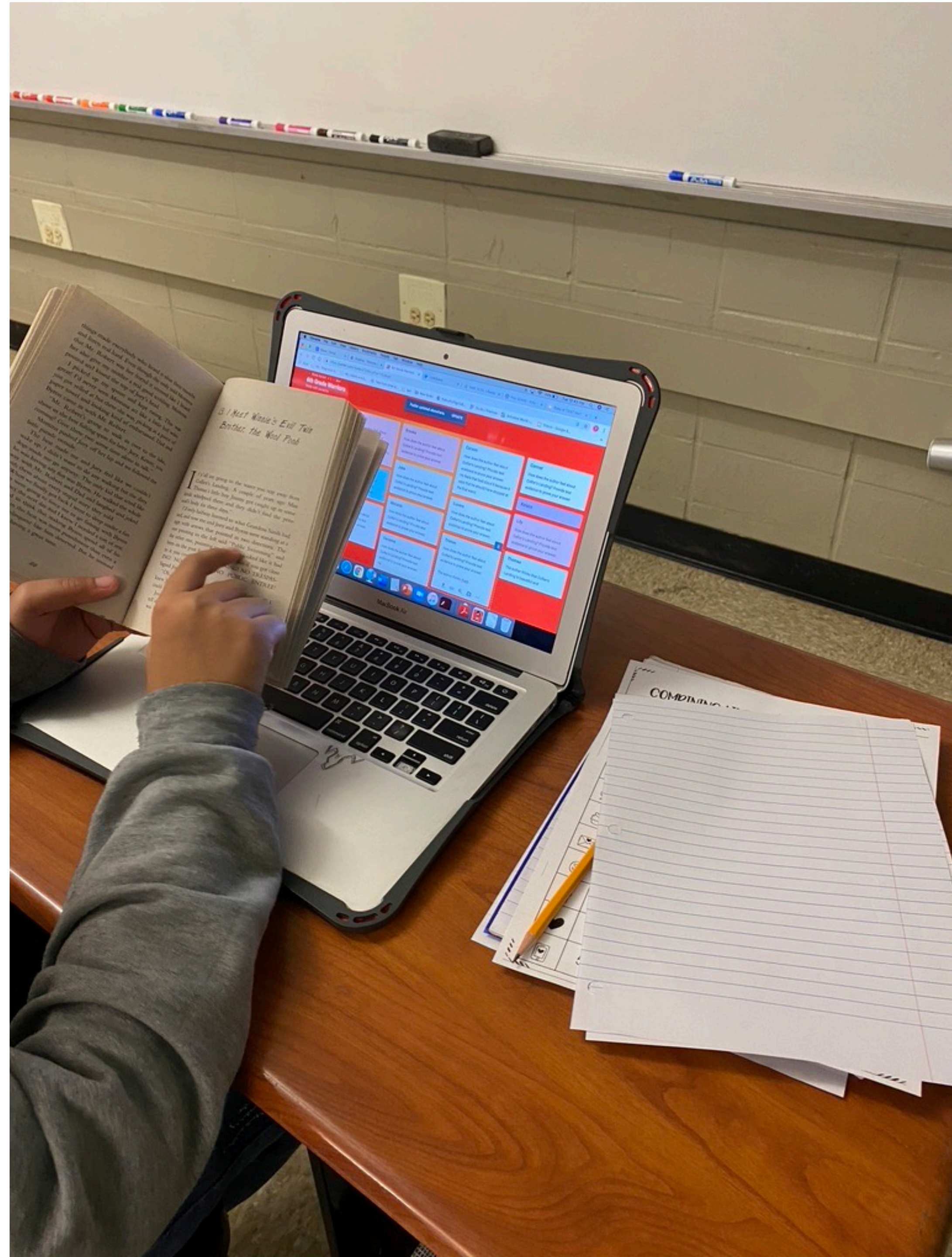
8

5 of 22



Show Student Names





ftf

Reflect on today's activities:

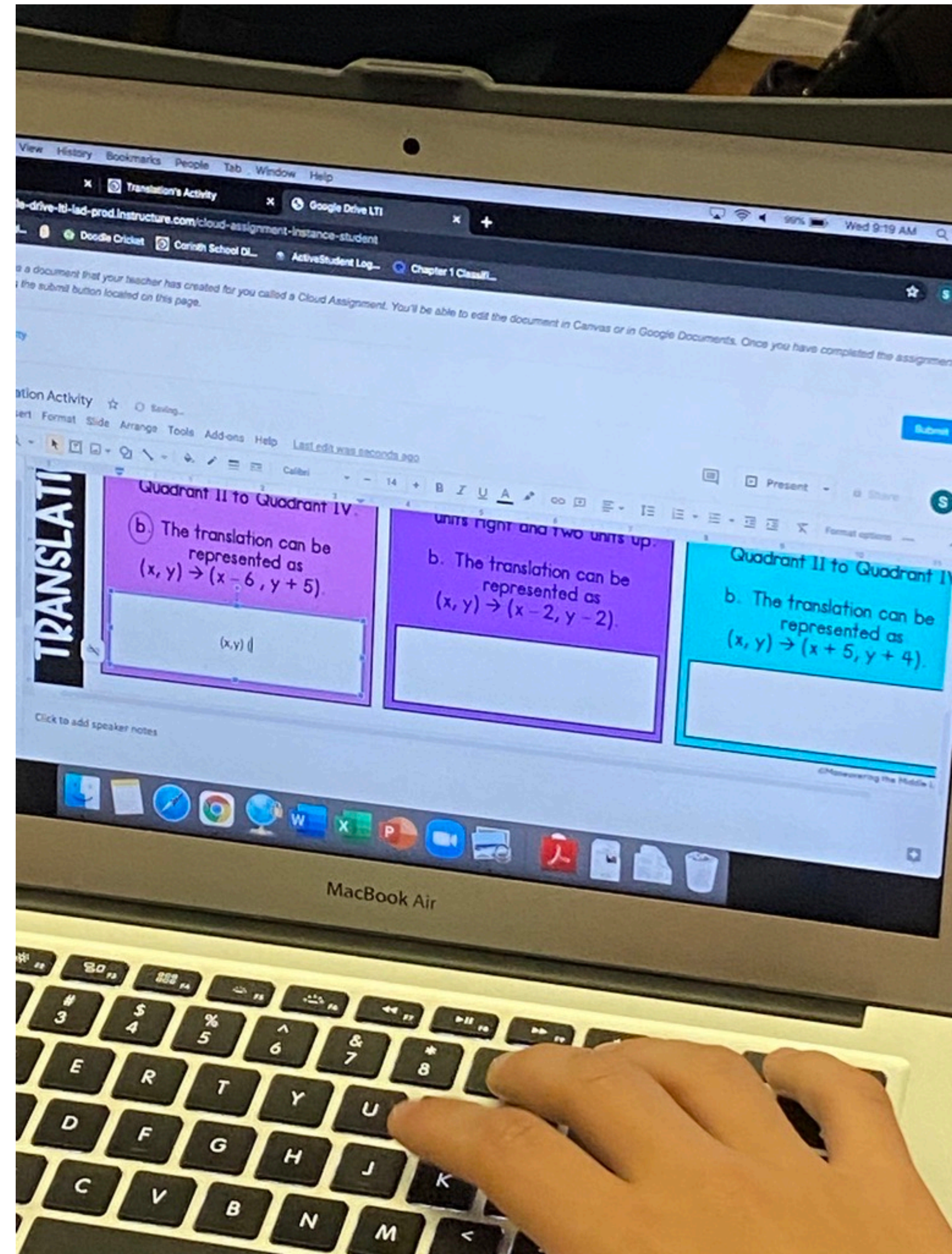
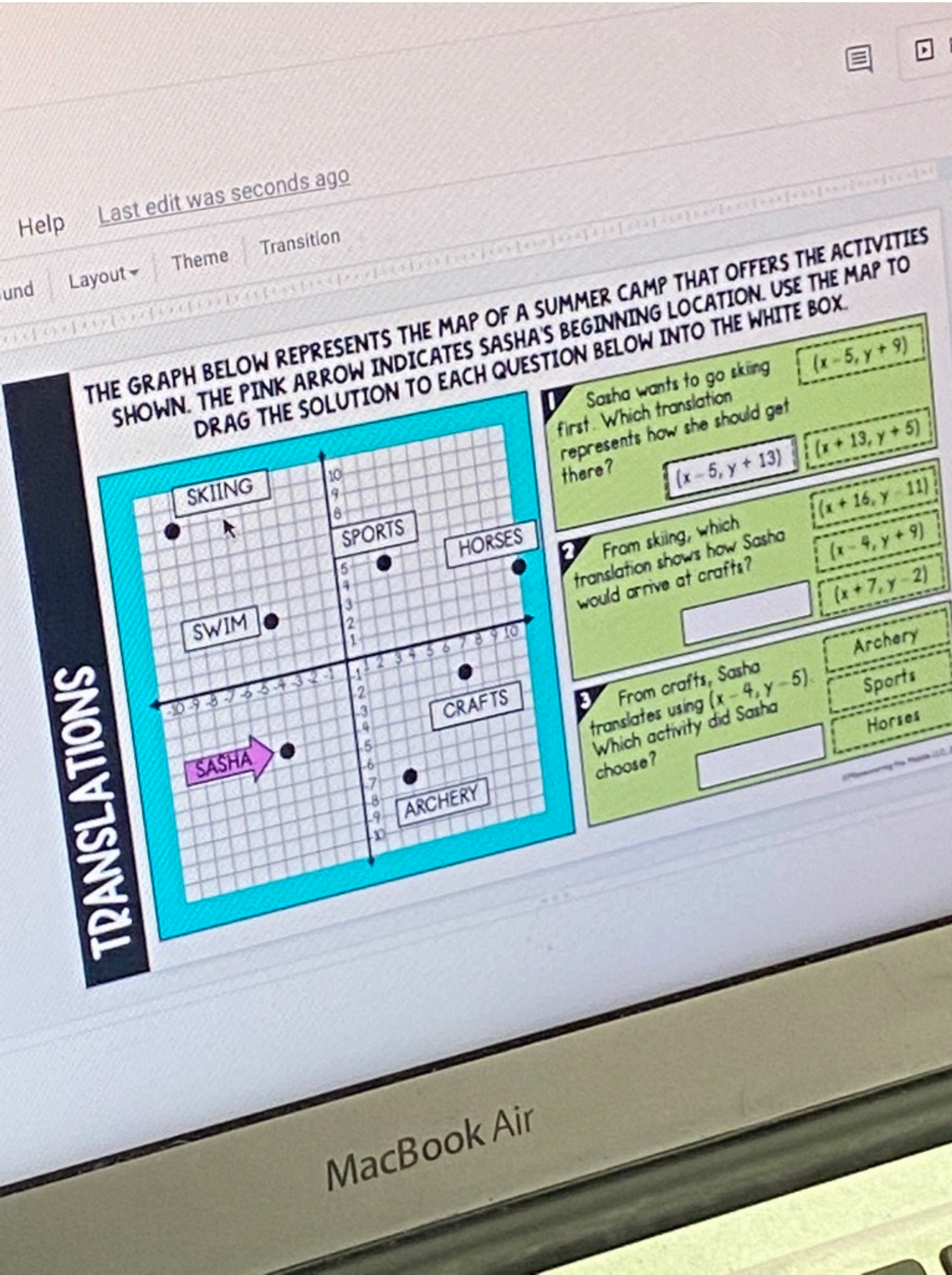
Describe Internal Influence in your own words	Describe external influence in your own words
What's one thing you plan on doing to make yourself happy this weekend?(sleep) is an option!	HAVE A GREAT WEEKEND!

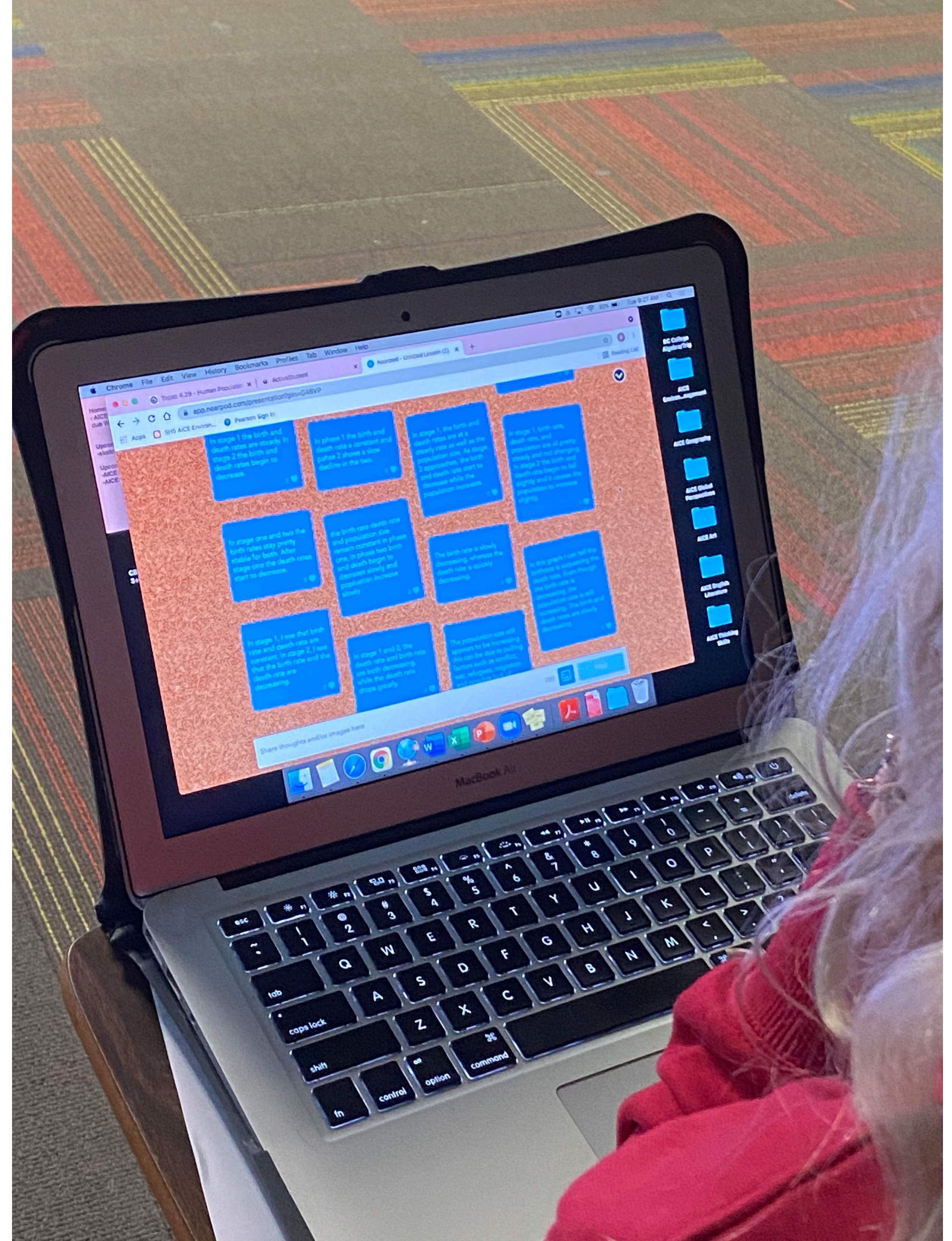
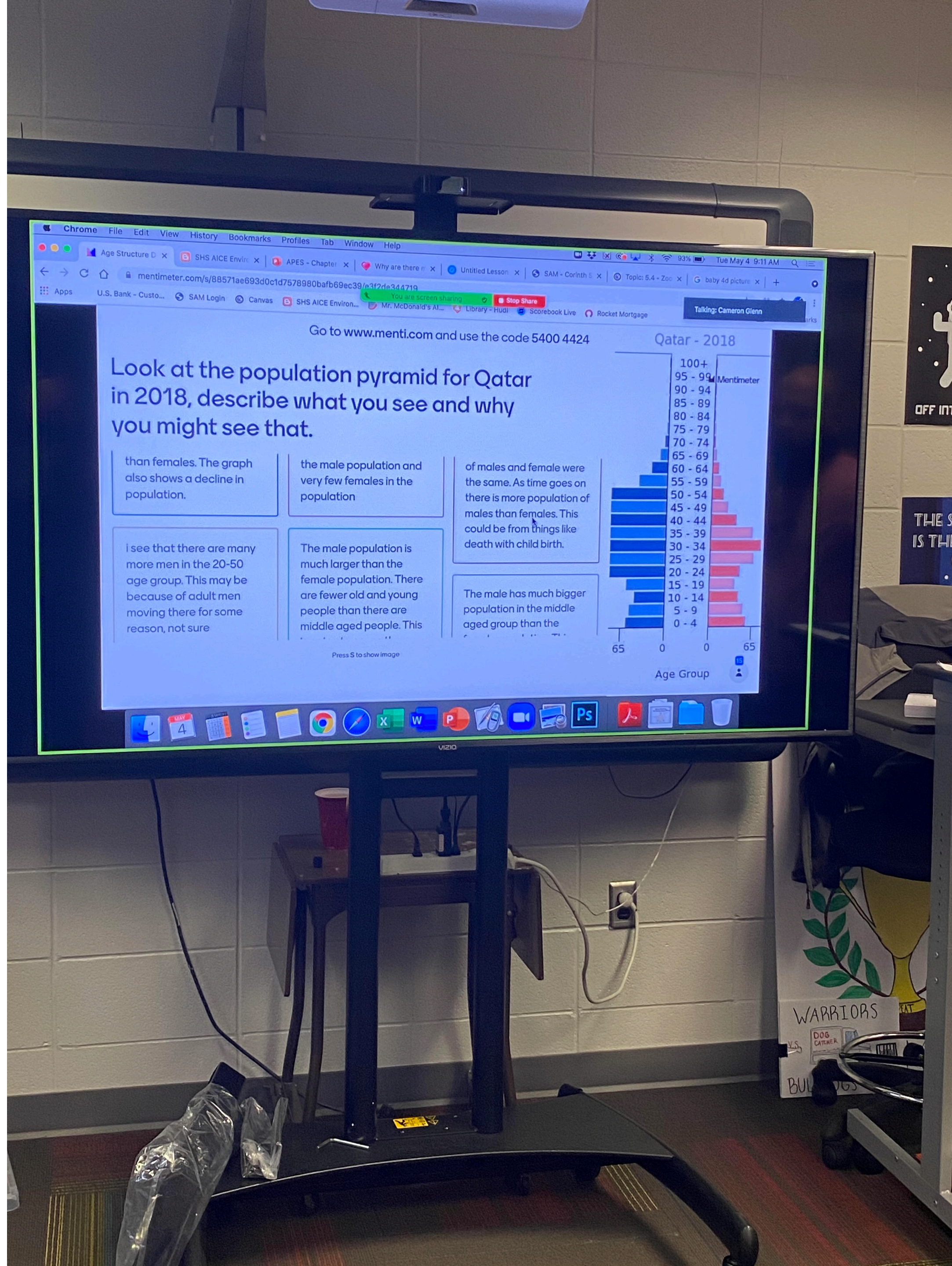
Students, draw anywhere on this slide!

Pear Deck Interactive Slide
Do not remove this bar

app.peardeck.com/presenter/tnzayzdwk/projector

Slide 15- mental he... Presentation Sessio... Presentation Sessio...





PROMETHEAN

File Edit View History Bookmarks People Tab Window Help

Brooks Pratt (Algebra) x LockDown Browser x Algebra III (H) - Hendri x Quiz: Bellringer x Algebra 3 - Line of Best Fit x Algebra III Honors Class x SAM - Corinth School x Algebra III Virtual Class x SAM - Corinth School x Algebra 2 - Pears... x Algebra III x Algebra 2 Textbook x JOCSE 1 x MAAP x Advanced Math PL... x MS Math Standards x Lessons by Topic

corinth.instructure.com/courses/3323

Apps Corinth School DL CHS E-mail Dashboard Clever | Homeroom SAM Login Algebra 2 - Pears... Algebra III Algebra 2 Textbook JOCSE 1 MAAP Advanced Math PL... MS Math Standards Lessons by Topic

To Do: August 24-28

Test 2.1-2.4 Friday!

ACT

Algebra III Honors Virtual Learners - Click to find your Zoom Link

THURSDAY, AUGUST 27, 2020

Google Slide Activity - Line of Best Fit - Home Price vs. Square Footage

HELP VIDEOS ARE LOCATED IN YOUR MODULE FOR TODAY IF YOU NEED THEM

EXIT TICKET - TEST 2.1-2.4 REVIEW PROBLEMS (STUDY FOR YOUR TEST TOMORROW!)

I can graph a scatter plot and line of best fit, and I can use the line to predict data through interpolation and extrapolation.

File Edit View History Bookmarks People Tab Window Help

How to Create a 1 Million... x Jamie Oliver: The follow... x Chapter 4 Intro

corinth.instructure.com/courses/3323/quizzes/33827/take

Mr. McDonald's AL

Question 7 - upload a picture of your work for questions #1-3

Question 8 - upload a picture of your work for questions #4-6

8 pts

Question 1

Solve by substitution. Fill in the solution blank with the coordinates of the solution (type "infinitely many" or "no solution" when applicable). Fill in the classification blank with the type of system.

1. $x - 7y = -11$
 $5x + 2y = -18$

Solution

Classification

8 pts

Question 2

Solve by substitution. Fill in the solution blank with the coordinates of the solution (type "infinitely many" or "no solution" when applicable). Fill in the classification blank with the type of

MacBook Air

dotstorming

Mongol Historical Evidence

Provide historical evidence to support or disagree with Mongol rule. Overall, for the regions impacted do we see an improvement or decrease in the quality of life for the citizens of the empire? Select your point of view and support your statement.

The citizens were more freely accepted like the artisans who were given more opportunities and were able to climb the social ladder in the Mongol empire. Also religion was more widely accepted and the leaders tried to keep everything peaceful within the empire, including travelers who were given shelter on their journey.

Mongol rule improved the quality of life for the citizens. Peasants' lives were improved because they were not taxed. Religious people's lives were also improved because of the religious tolerance in the Mongol Empire. Aristocrats were also supported by Khublai Khan because of his love of arts, so their lives improved.

I support the Mongol rule because the fear the Mongols initiated into many empires allowed the empires to follow and do what the Mongols wanted to do. Persia didn't surrender to the Mongols so they were invaded by the Mongols. Also the Mongols favored the artisans because they did not have a an artisan class, so they needed crafts like things. The Mongols were violent, but they allowed various freedoms like religious freedom

I agree with the mongol rule because they made a lot of major positive changes including making it illegal to buy and or sell women along with stealing in general. Even though the Mongol rule had its flaws it did a lot of good for the post classical time period in general.

3 votes available

Chat

Enabled: ☐

Participants 17

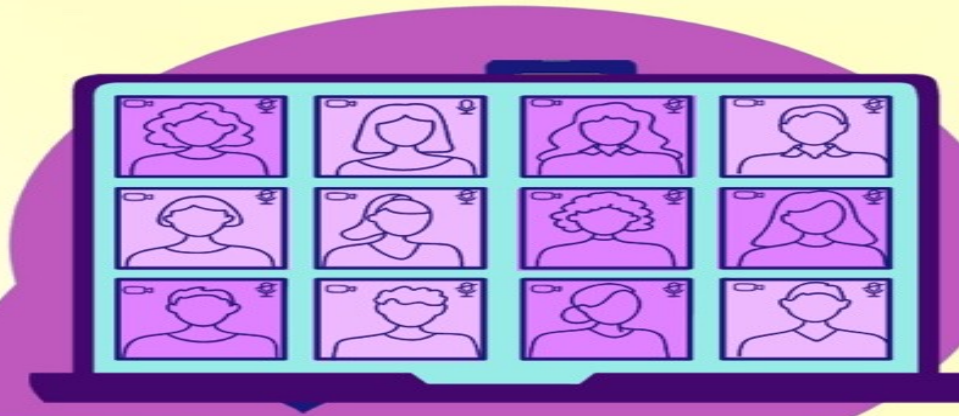
Enabled: ☒

- Mr. Kasopsky
- carolina
- Juana
- Joel
- Alivia
- iolanie
- Julien
- Lesly
- Jonathan
- Cassandrine
- princess

Showing Learning Through Voice and Choice



Writing



Video



Audio

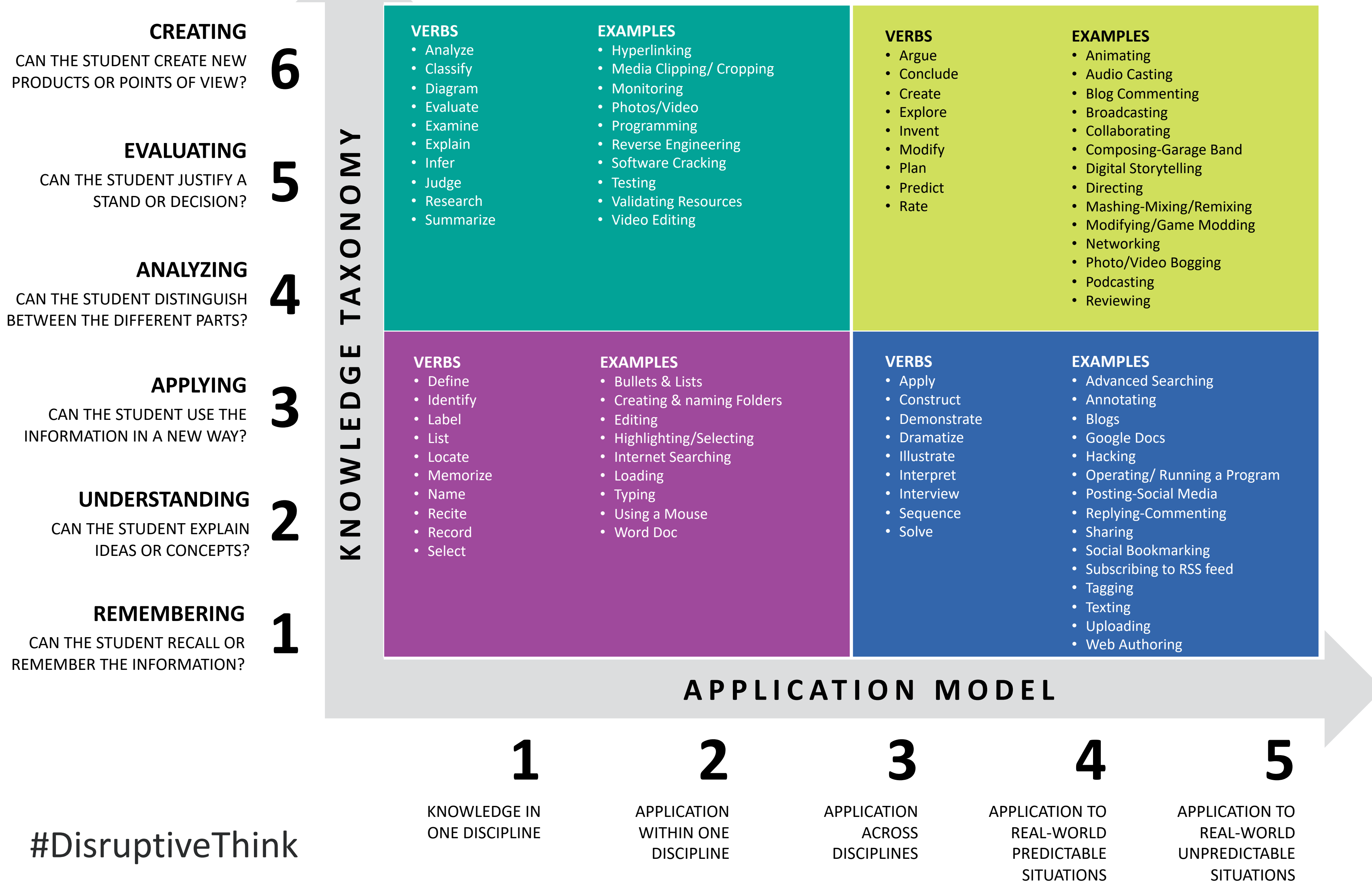


Images



Drawing

Technology Use By Quadrant



“Pedagogy is the driver, technology is the accelerator”

- Michael Fullan



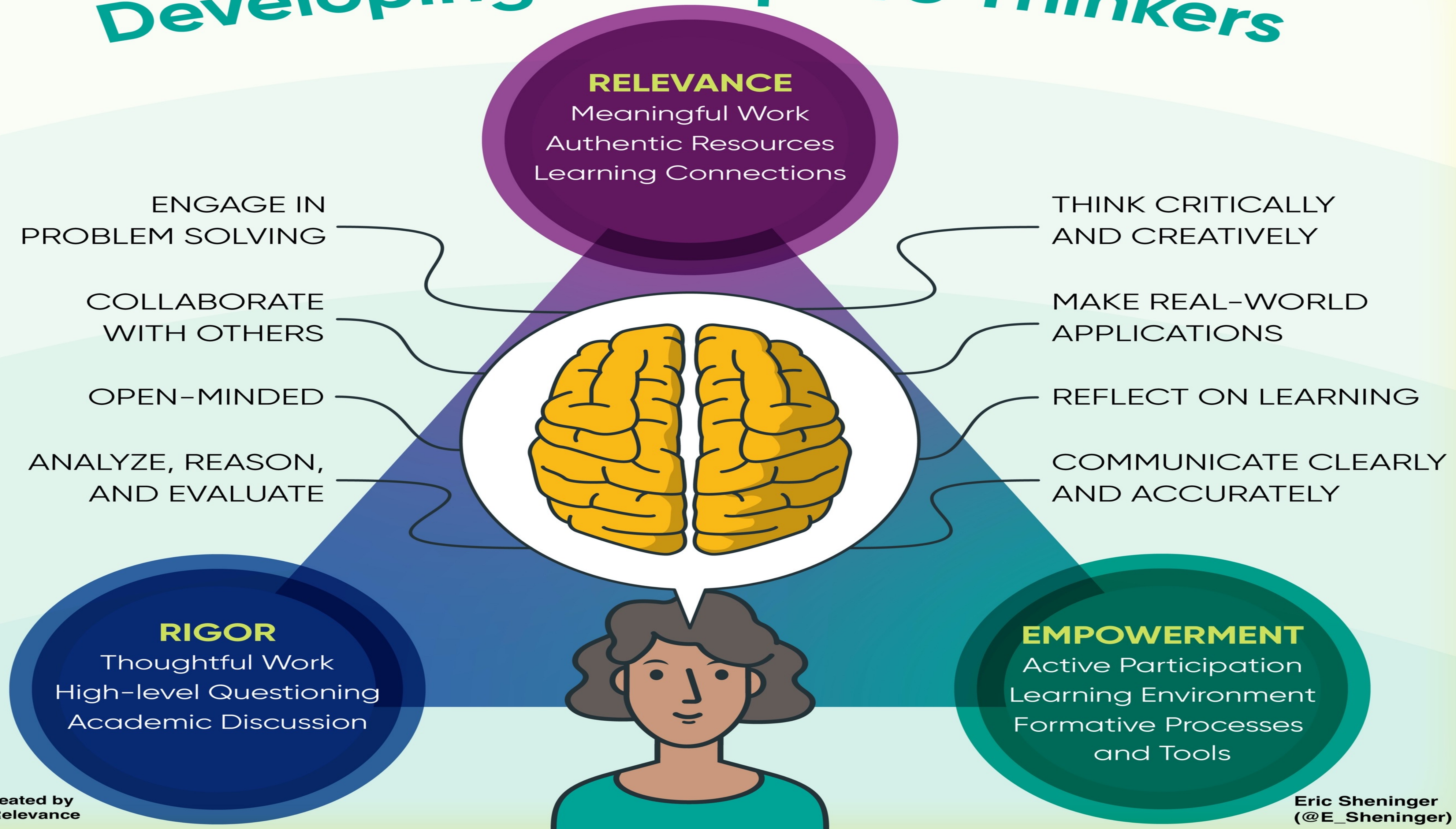
Tools

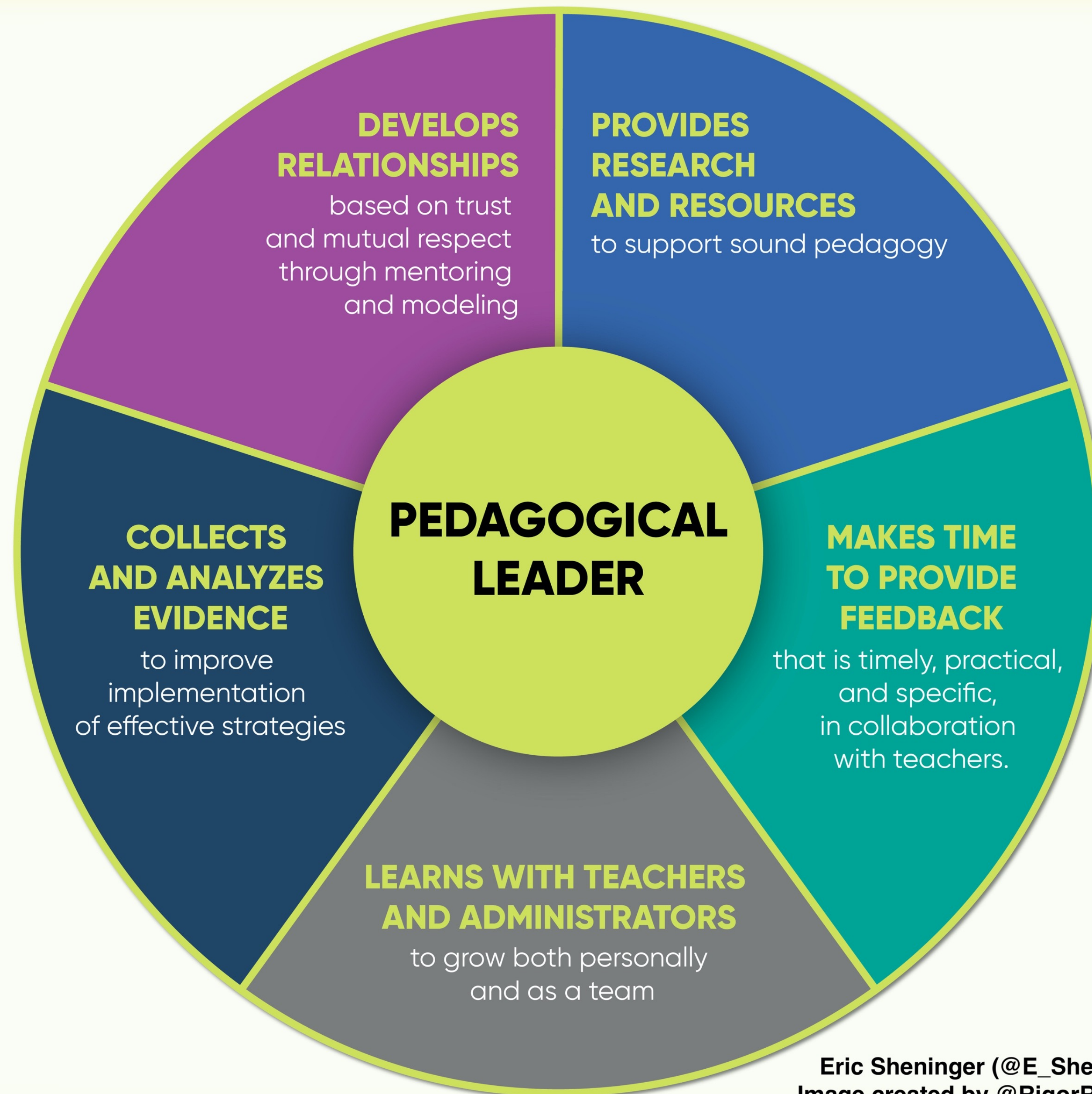
- **Mentimeter** (review of prior learning, checks for understanding, closure)
- **Pear Deck** (formative and targeted assessment)*
- **Nearpod** (formative and targeted assessment)*
- **Padlet** (cooperative learning, closure, checks for understanding)
- **Linoit** (cooperative learning, closure, checks for understanding, annotation)
- **Flipgrid** (video creation for closure, checks for understanding, blended learning)
- **Newsela** (assign current event articles by Lexile and quizzes)
- **Freckle** (differentiation, stations)*
- **Edpuzzle** (upload videos and insert questions)*
- **GoSoapBox** (confusion indicator, quizzes, discussion forum, polls)
- **Formative** (formative assessment, differentiation)*
- **Gimkit** (game-based formative assessment, closure)
- **QuizWhizzer** (formative assessment, closure)
- **Blooket** (game-based formative assessment)
- **Seesaw** (demonstrate and share learning)
- **AnswerGarden** (checks for understanding, closure)

[Bit.ly/edtechdisrupt](https://bit.ly/edtechdisrupt)

* Denotes importing and syncing with Google Classroom, Canvas, Schoology

Developing Disruptive Thinkers





#DisruptiveThink

Eric Sheneringer (@E_Sheneringer)
Image created by @RigorRelevance

1

Daily Meeting-
weave into
schedule at
various times



2

Digital Surveys-
connect with
how kids are
feeling



An Embedded Approach to SEL

4

**Family
Engagement-**
bring SEL
strategies
into the home



3

Personalization-
rely on sound
pedagogy to
meet needs



Key considerations

1. Conduct a culture audit to see where growth is needed
2. Leverage lessons learned from the pandemic to implement and sustain change
3. Look for ways to empower learners through voice
4. Ensure sound pedagogy, with and without technology, is in place

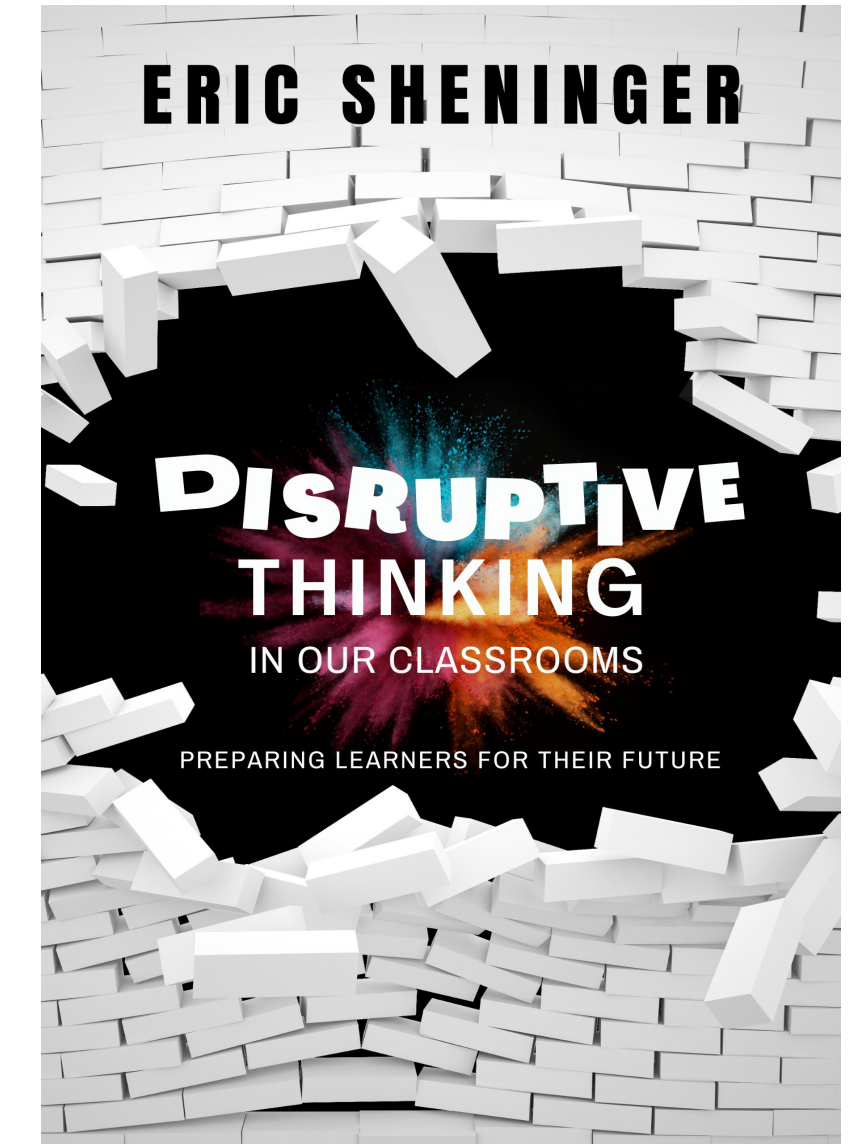
Eric Sheninger



@e_sheninger

ericsheninger.com

esheninger@leadered.com



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