Disruptive Thinking in Our Classrooms

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#DisruptiveThink



From Houghton Mifflin Harcourt.





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The time is now to transform













WE NEED TO FOCUS MORE ON THE "WHAT IFS?" AND LESS ON THE "YEAH, BUTS."

@E_SHENINGER

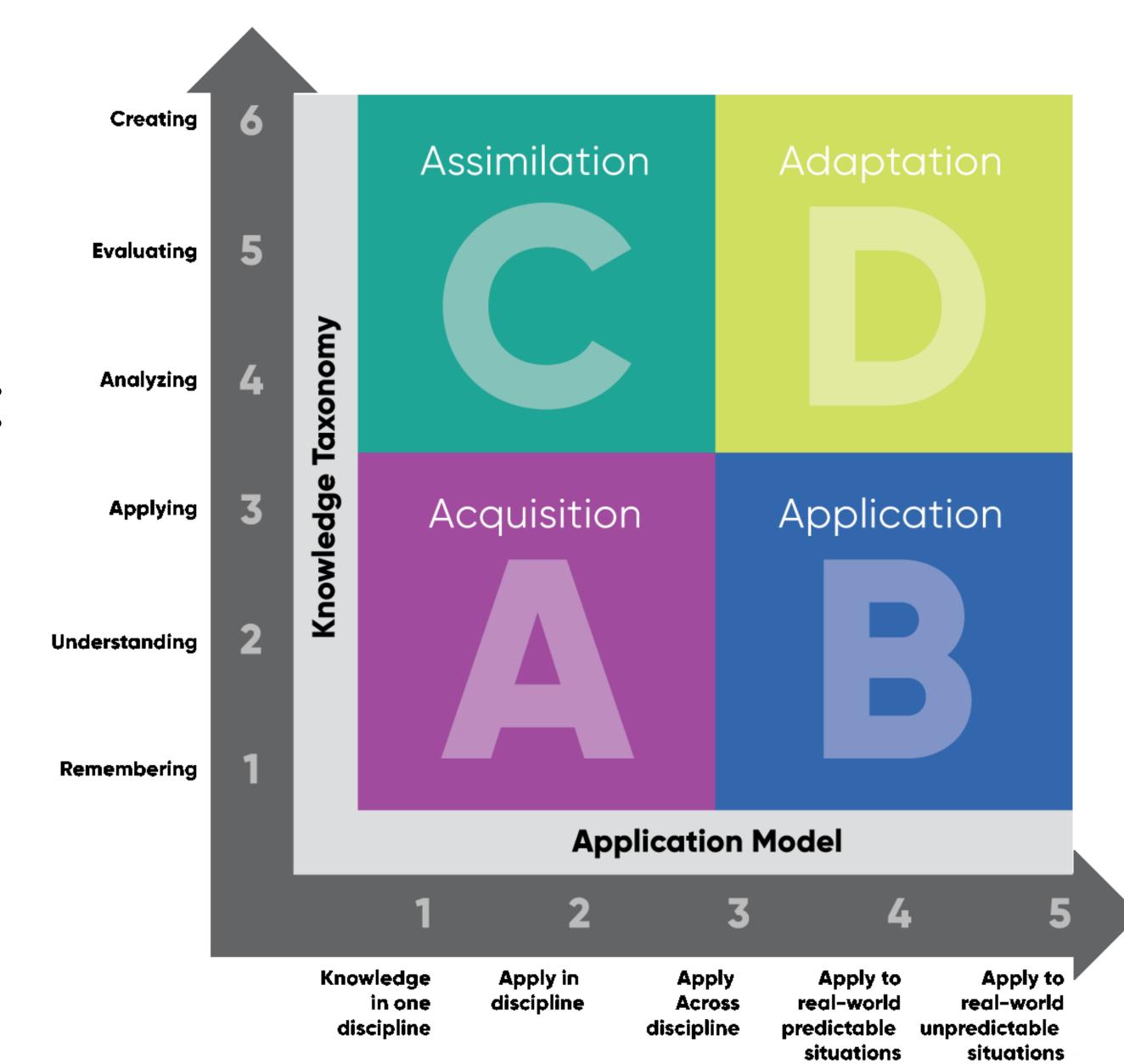
Leaning in to Learning





All kids have greatness hidden inside them. It is the job of an educator to help them find and unleash it. - all Sheninger

Rigor/Relevance Framework®





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A lack of relevance can be draining.









If a Lesson is Relevant. Students Will be Able to Tell You:

What They Learned

Why They Learned It

How They Will Use It

The lesson will have meaning for students.

What can you create? What can you design? What can you develop? What can you do?

CREATE

What can you plan? What can you produce? How could you innovate? What could you invent?

What kind of original problem/text could you produce? What kind of model could you develop and use?

What could you do if/when...? What would you do if/when...? What do you do if/when...?

SYNTHESIZE

How could you? How would you? How can you? How do you?

EVALUATE

What do you believe/ feel/ think? What is your opinion/ perspective/ thoughts? Do you agree or disagree?

What is the effect? What is the impact? What is the outcome?

What if? What could happen?? What is the result? How may? How might? What will? How will?

Is... or? Does... or? Should... or?

EVEL OF THINKING AND ACTION What is the cause? Why is it used? **ANALYZE** What is the connection? Why does it work? What does it infer? What is the influence? What does it infer? What could happen? What is the influence? What does it mean? What would happen? What is the reason? What does it suggestion could? How would happen? What is the relationship?

APPLY

How does it work? How is it used?

UNDERSTAND

RECOGNIZE Where? When? Who? What?

Why? How?

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WHAT DO YOU WANT KIDS To Do With TECHNOLOGY? RIGHT WRONG ANSWERS ANSWERS · RAISE AWARENESS · MAKE PREZIS · START CONVERSATIONS · START BLOGS · FIND ANSWERS · CREATE WORDLES (TO THEIR QUESTIONS) · Rublish Animotos · JOIN PARTMERS · DESIGN FLIPCHARTS · CHAMGE M:NDS · PRODUCE VIDEOS · MAKE A DIFFERENCE · Post to EDMODO · TAKE Action · USE WHITEBOARD · DRIVE CHANGE · DEVELOP APPS TECHNOLOGY IS A TOOL, NOT A LEARNING OUTGOME.

CREATING

CAN THE STUDENT CREATE NEW PRODUCTS OR POINTS OF VIEW?

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EVALUATING

CAN THE STUDENT JUSTIFY A STAND OR DECISION?

ANALYZING

CAN THE STUDENT DISTINGUISH BETWEEN THE DIFFERENT PARTS?

APPLYING

CAN THE STUDENT USE THE INFORMATION IN A NEW WAY?

UNDERSTANDING

CAN THE STUDENT EXPLAIN **IDEAS OR CONCEPTS?**

REMEMBERING

CAN THE STUDENT RECALL OR REMEMBER THE **INFORMATION?**

VERBS

- Analyze
- Classify Diagram
- Evaluate
- Examine
- Explain
- Infer Judge

VERBS

Define

Identify

Locate

Name

Recite

Record

Select

Memorize

Label

List

 Research Summarize

EXAMPLES

- Hyperlinking
- Media Clipping/ Cropping
- Monitoring
- Photos/Video
- Programming Reverse Engineering
- Software Cracking
- Testing
- Validating Resources
- Video Editing

EXAMPLES

Editing

Loading

Word Doc

Typing

Bullets & Lists

Creating & naming Folders

Highlighting/Selecting

Internet Searching

Using a Mouse

VERBS

- Argue
- Conclude
- Create
- Explore Invent
- Modify
- Plan
- Predict Rate

EXAMPLES

- Animating
- Audio Casting
- Blog Commenting
- Broadcasting
- Collaborating
- Composing-Garage Band
- Digital Storytelling
- Directing
- Mashing-Mixing/Remixing
- Modifying/Game Modding
- Networking
- Photo/Video Bogging
- Podcasting
- Reviewing

VERBS

- Apply
- Construct
- Demonstrate Dramatize
- Illustrate
- Interpret
- Interview Sequence
- Solve

EXAMPLES

- Advanced Searching
- Annotating
- Blogs
- Google Docs
- Hacking
- Operating/ Running a Program
- Posting-Social Media
- Replying-Commenting
- Sharing
- Social Bookmarking
- Subscribing to RSS feed
- Tagging
- Texting
- Uploading
- Web Authoring

APPLICATION MODEL

APPLICATION

APPLICATION TO REAL-WORLD UNPREDICTABLE SITUATIONS

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KNOWLEDGE IN ONE DISCIPLINE **APPLICATION** WITHIN ONE DISCIPLINE

ACROSS DISCIPLINES **APPLICATION TO REAL-WORLD PREDICTABLE** SITUATIONS

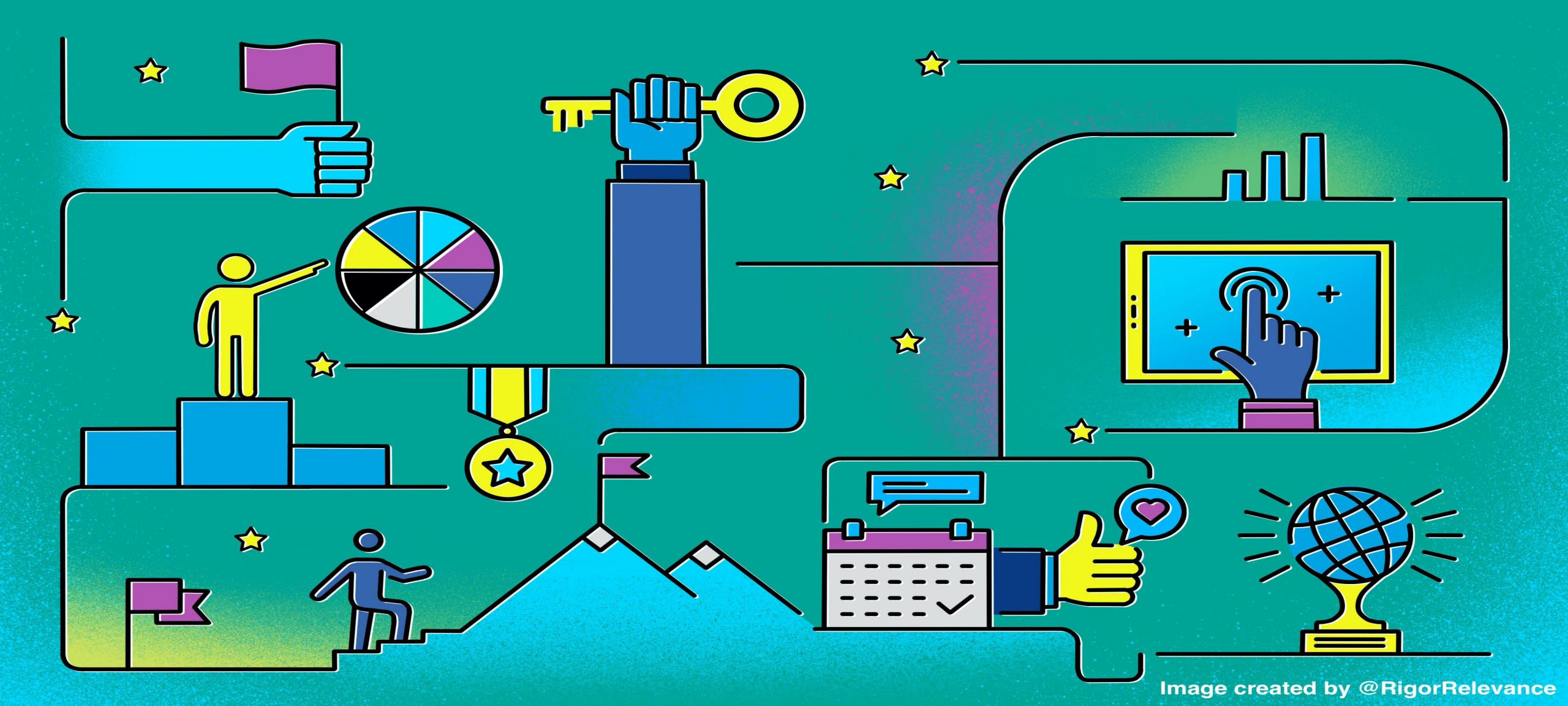
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Technolog

Use By

Quadrant

"Don't prepare learners for something. Prepare them for anything!"—Eric Sheninger



Meeting the Needs of ALL





Experiences shape our learning.









How to prepare for a Zoom meeting



Equality









Equity



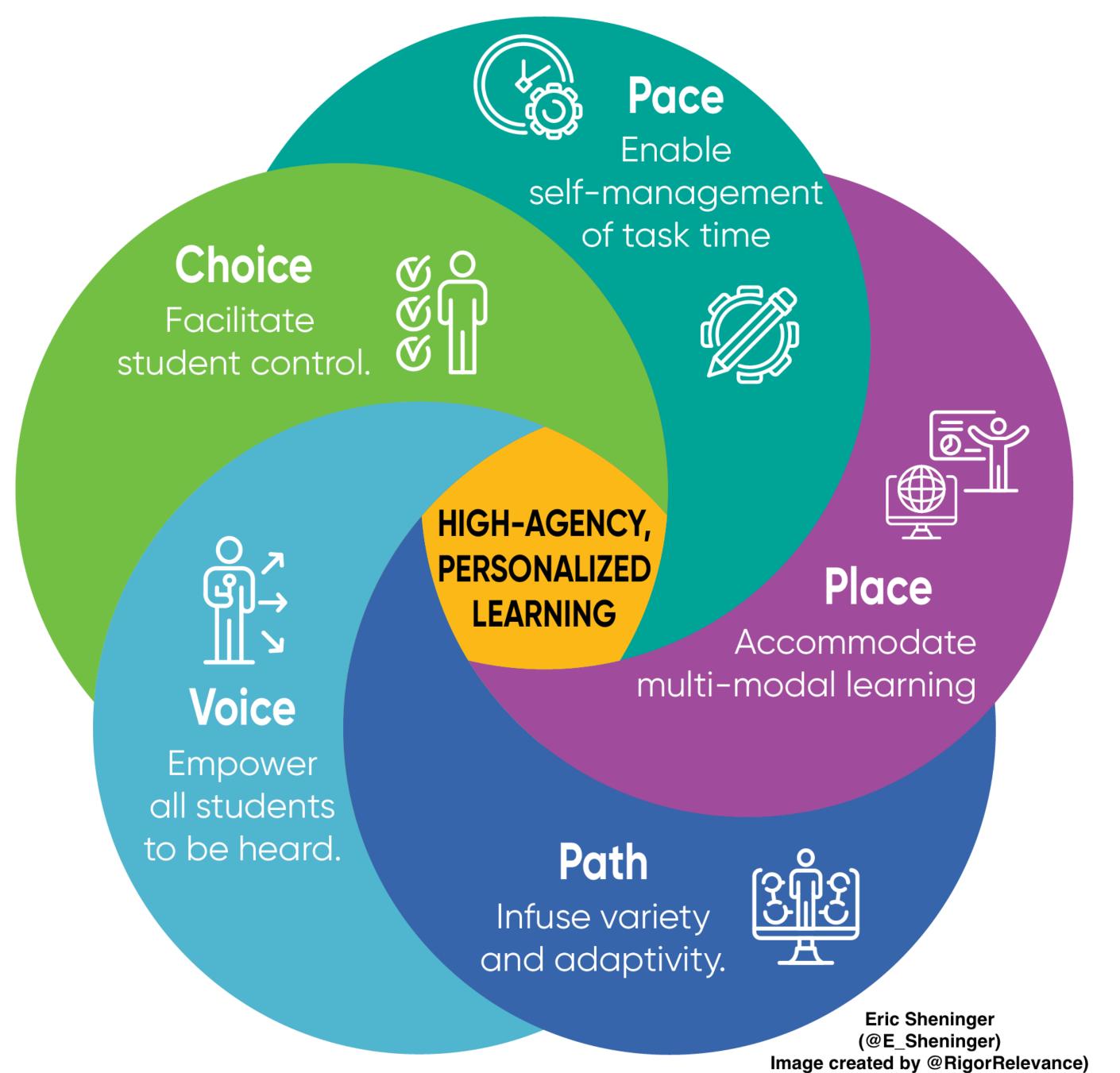




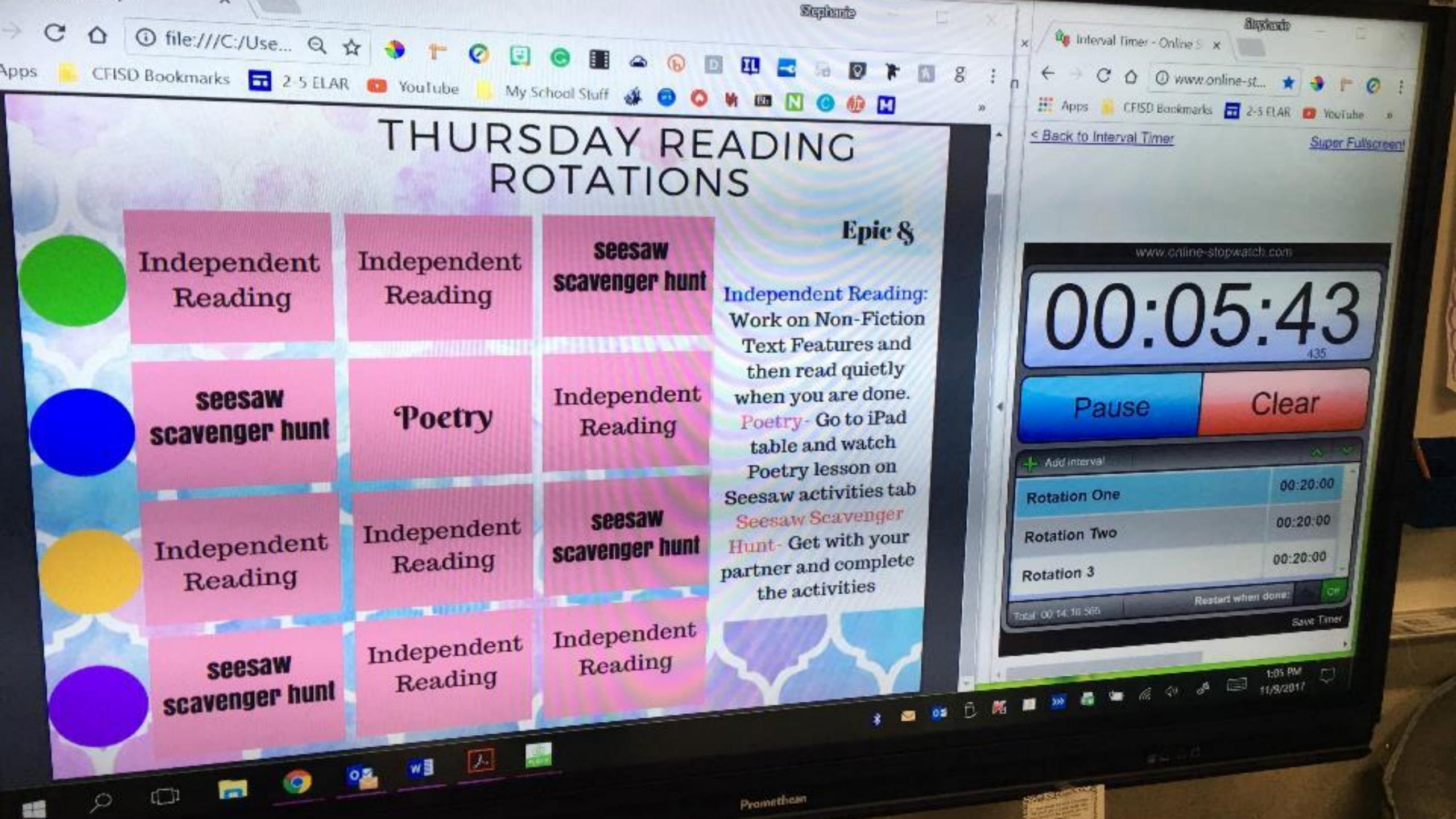




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Molecules of Life Choice Board

Superhero Macromolecule

Create & draw 1 macromolecule superhero. Their functions should be incorporated into its powers.

Macromolecule structures and components must be evident in drawing.

Review Game

Create a review game/tool for the class about one macromolecule. Be CREATIVE. You must hand in a copy or link to the game as well as a written copy of the questions. There should be a minimum of 25 questions. Try kahoot.it or Quizlet.

Comic Strip

Create a comic for a macromolecule. It should explain in detail each molecule and include pictures of examples and structures. The function of your molecule must be included. Try Home of Comic Life (plasq.com) to download the app.

Letter from a Nutritionist

Write a letter (at least 1 page typed) as if you are a nutritionist writing to a patient about living a healthier lifestyle. Include the necessary biological molecule that your patient needs to keep his/her body in homeostasis.

Bozeman Biology Video + Notes

Watch a Bozeman Biology Video
(http://www.bozemanscience.com/biology
-main-page) on Carbohydrates, Lipids,
Proteins, Nucleic Acids or Molecules of
Life- Take notes and create a
macromolecules Sketchnote that
includes all important information about
the molecule.

<u>Disease Research</u>

Research a disease/condition related to one of the four macromolecules.

Describe the diseases/conditions with respect to the structures and functions of the macromolecules in a report (at least 1 page typed, double spaced).

<u>Build a Molecule</u>

Create 3D structures of one of the 4 different macromolecules. Each must be labeled (with individual parts such as Phosphate – nitrogenous base – ribose, Carbon, Hydrogen, Oxygen, etc.).

Examples & functions of each macromolecule must be included on a card. Upload photo of your work.

<u>Macromolecule Jingle</u>

Create a song about a macromolecule of your choice. You must have at least 5 verses and a beat. The recording can be done of Flipgrid or submitted as an mp4.

<u>Macromolecule Video</u>

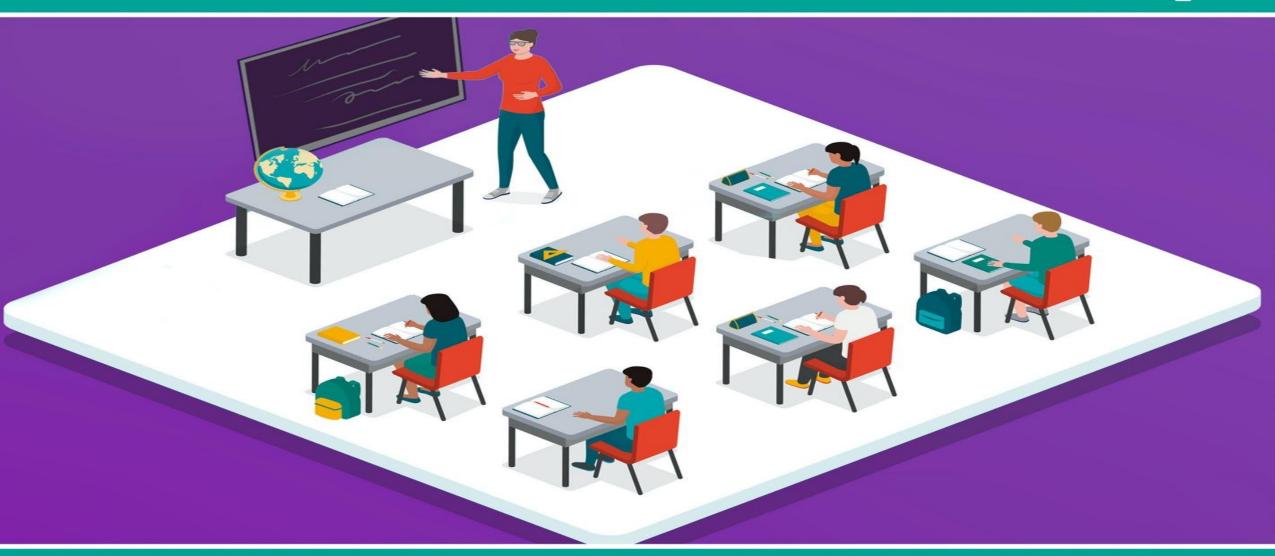
Create a video describing the four different types of macromolecules regarding the structure and function. You MUST be in the video and it must be original material- no copying a video that was already done.

Station	Instructions	Morgan	Alexa	Ella	Sydney	Wesley	Anderson	Cayden	NC.	Annalyce	Sahana	Savina	Phoebe	Julien	Samantha	Melissa	Maria	Maddox	Madden	Logan	Ashton	Caryla
Mr.Huckeba	Bring a Dry Erase Marker and a Whiteboard																					
Independent Practice	Multiply Divide Whole Number and Fraction Mixed Independent Practice Worksheet.																					
SeeSaw	Create a seesaw video explaining how to multiply fractions and whole numbers using models.																					
Multiplying and Dividing with Models	Complete the Google Form on the Google Classroom.																					
Four in a Row Game	Master Station 3- Draw cards and solve the problem. Cover the answer on your game board if it is a match. The first to get four in a row (vertical, horizontal, or diagonal) wins.																					
Card Sort	Master Station 1- Sort the cards to match the word problem to the solution, model, and equation. Take a picture of your sort and post it to the assignment on the Google Classroom.																					
Reflex Math	Set a timer on your computer for 10 Minutes																					

Equality vs. Equity in Education

Equality

Eric Sheninger (@E_Sheninger)
Image created by @RigorRelevance





Equity (through Personalization)

Station Rotation

Choice Boards

Playlists

Flipped Lessons



Better Than Before





Lessons are learned every day.



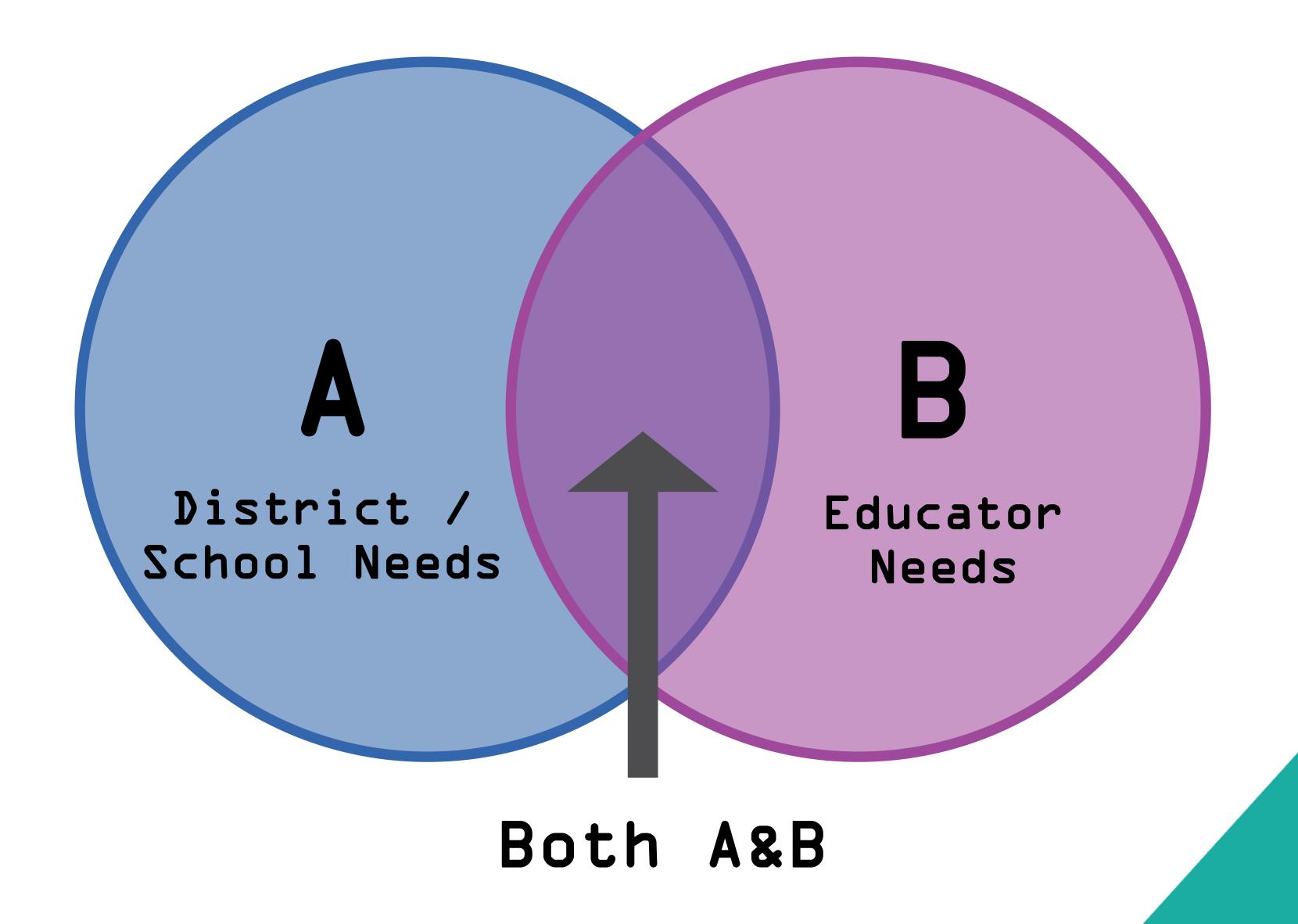
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Effective Professional Learning





Digital Learning Quadrant S

Connected Lurker Collaborativ e Learner

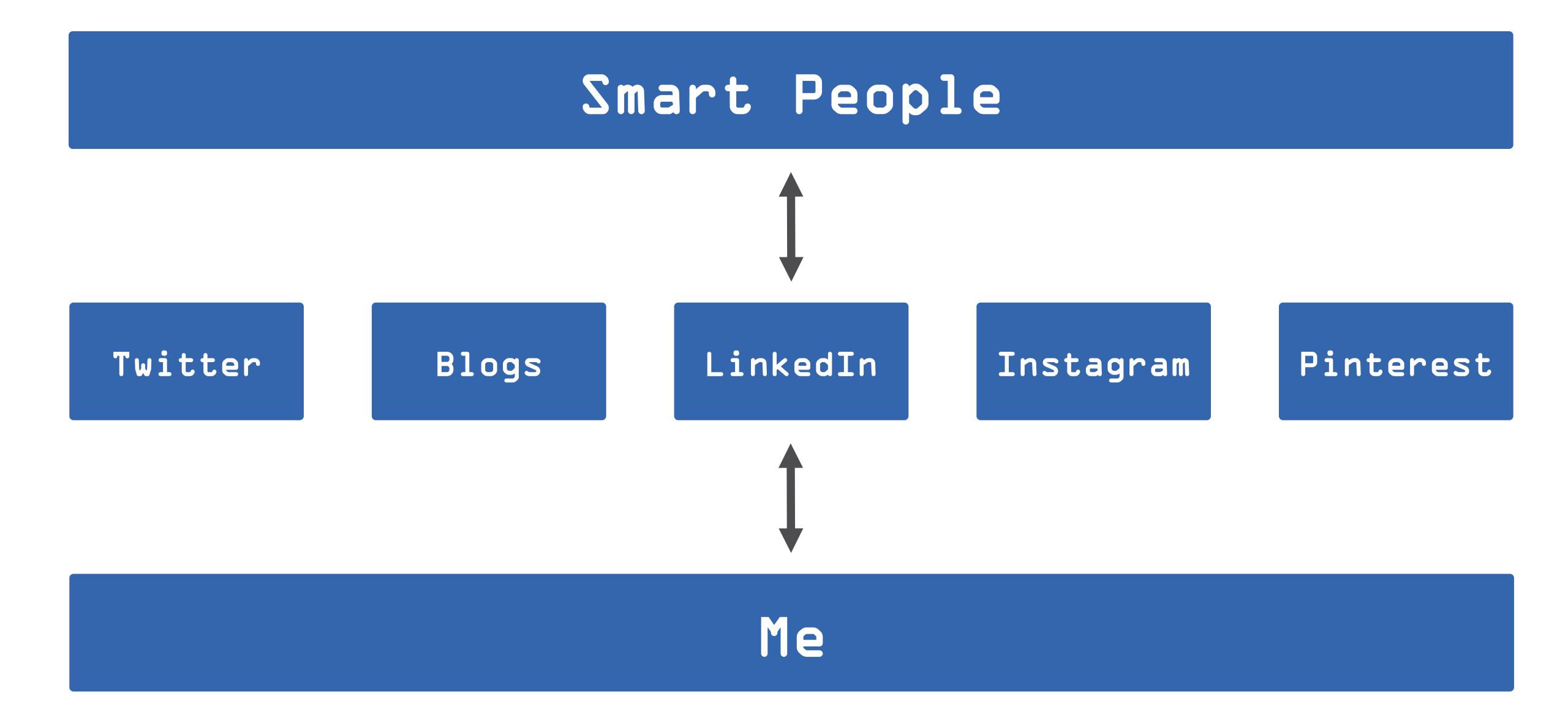
Acces

Disconnected Nomad

Willing Participant

Participation







If you're the smartest person in the room, then you're in the wrong room.



Share the Stories



Effective communication helps to achieve goals and engage families.











Thomas Stephen Szasz

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David Allen





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It all comes down to relationships. Without trust there is no relationship. Without relationships no real learning occurs - @E_Sheninger





Key Recommendations to Create a Disruptive Thinking Culture

- Don't think you need to do it all yourself.
- Prioritize time standards and SEL needs.
- Continue to advance learning and equity in your schools with professional development.
- · Brow and appreciate the impact veThink



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