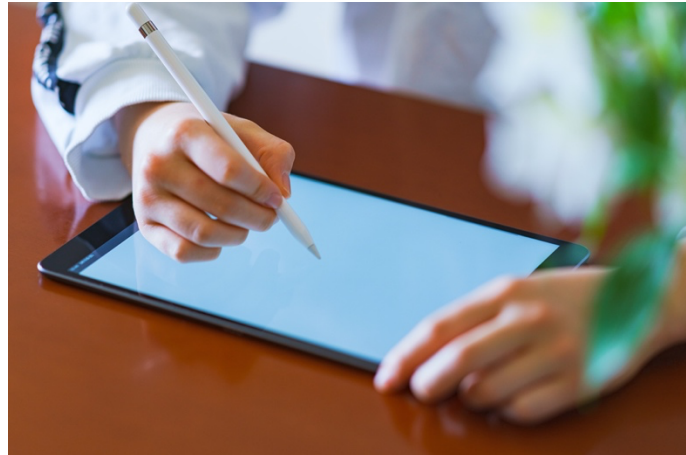# Rigor in the Remote Learning Classroom

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Rigor is creating an environment in which each student is expected to learn at high levels; each student is supported so he or she can learn at high levels; and each student demonstrates learning at high levels.

Expectations	
Support and Scaffolding	
Demonstration of Learning	

KEY CORE BELIEFS

Core Beliefs About Rigor and Remote Learning

- Remote learning use best practices in instruction but adapts them to a virtual setting.

- Remote learning should provide opportunities for student engagement, although it may look different from the physical classroom.

- Blending synchronous and asynchronous learning will likely be the best way to support your instruction.

- Planning ensures you can accomplish your goals with rigorous remote learning.

- Expectations for learning should be high in terms of content, not just technology or creativity.

- Scaffolding and support are key to student success. Scaffolding may occur with the whole class, small groups, or individuals.

- Allowing for different assessment options, including an emphasis on performance-based assessment, is important, since traditional assessment methods may not be as effective in a remote learning setting.

- Partnering with parents and families is critical to ensure student success.

(II) PAUSE	Pause and Reflect: *Which of these beliefs resonate with you?*

Creating a Culture of High Expectations Related to Remote Learning

Strategies that Create a Culture of High Expectations	Applications to Remote Learning
1. Classroom Management and Motivation Plans	1. Incorporating student motivation (value and success) in lessons; creating and utilizing clear routines.
2. Bell-to-Bell Teaching	2. Maximize learning time with a focus on outcomes rather than the clock.
3. Classroom Organization	3. Create and utilize clear routines; organize learning tasks and resources.
4. High Expectations	4. Creating opportunities for students to participate in high-level assignments, task, and assessments.
5. Communicating High Expectations	5. Use language that shares your rigorous expectations through all

	materials, videos, and feedback.
6. Actively Engaging Students	6. Incorporate the aspects of remote learning that can enhance engagement, such as chats.
7. Keeping Students on Target	7. Build routines that help students stay on track, self-monitor, and provide information so you can assess progress.
8. Providing Relevant Feedback	8. With remote learning, feedback is even more important. Be sure it is laser-focused on your objectives and provides information students can immediately use.
9. Grading Practices	9. Consider traditional grading but adapt it to match remote learning practices.
10. Managing Behavior Issues	10. Create protocols for behavior management, such as anti-bullying guidelines.

⏸ PAUSE

Pause and Reflect: *Which of these elements do you/your school do well? Which ones are a bit of a challenge?*

Support and Scaffolding

Graphic Organizers

Guide-o-Rama

Specific Technology Support

$$a^2+b^2=c^2$$

Use the **Pythagorean Theorem** to_____
_____
_____
_____
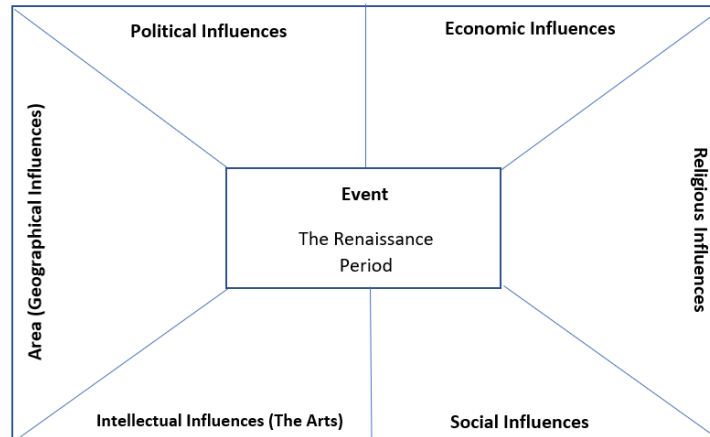
a=_____
b=_____
c=_____

When solving for "a"

When solving for "c"

When solving for "b"

To find the missing leg or hypotenuse…………………

PERSIA Graphic Organizer
(Political, Economic, Religious, Social, Intellectual, and Area (geographic))

Political Influences

Economic Influences

Area (Geographical Influences)

Religious Influences

Event

The Renaissance Period

Intellectual Influences (The Arts)

Social Influences

Resources for Mind Maps

https://www.mindmup.com

https://simplemind.eu/how-to-mind-map/basics/

https://www.mindmapping.com

https://www.mindmeister.com/blog/students-guide-to-mind-mapping/

Guide-O-Rama
Ratios (https://youtu.be/UxWsY59NVgc)

Time #	Reading Tip
0 seconds	What do you already know about ratios? Before I watch a video, I also write down what I'm confused about or what I want to learn.
15 seconds	How does the tutor define ratios? How does it compare to your thoughts? For me, sometimes it doesn't match, so I know I need to pay extra attention to the video.

51 seconds	The first time I watched this, I was a little confused because writing a ratio looks exactly like writing a fraction. Did this confuse you?
1:40	Stop and think for a minute. Is this making sense? If it is confusing, you might want to back up the video now and re-watch it. I've found that it helps me to stop when I don't understand a step rather than waiting until the end.

Other Technology for Support

Pause and Reflect: *Which of the various strategies would help you in your classroom?*

Demonstration of Learning

Academic Discourse

Exploring Perspectives

Virtual Experiences

Academic Discourse

Possible Tools to Support Discussions
Note Catcher or Google Docs (organize discussions; teacher can facilitate the discussion using pre-assignments and a feedback survey)
Kialo.com (secure private chatboard where students can respond to the teacher with evidence to support their thoughts; can also respond to each other's evidence for debates)
YoTeach (whole group or breakout rooms)
FlipGrid (video responses to teacher and peers)

Exploring Perspectives

Points of View

Topic	View 1	View 2	View 3
Lunch menu	Cafeteria workers	Student who loves junk food	Student who wants to eat healthy food
Discovery of the New World	Christopher Columbus	Native Americans	King of Spain
Solar system	Copernicus	Contemporaries of Copernicus	Sun
Musical score	Conductor	Musicians	Audience Member
Art	Sculptor or painter	Piece of art	Person looking at art
Word problems in math	The missing number or variable	The solution	The student trying to solve the problem

Virtual Experiences

Sources for Virtual-Reality Education

National Geographic's YouTube Channel

A series of 360° videos captures virtual reality from any web browser and touch-screen device.

Nearpod.com

Excellent VR lessons for students of all ages across all content.

Discovery Ed

Hundreds of videos that transport students to locations around the world in an instant.

BBC 360° (YouTube)

Allows students to experience the sights and sounds of destinations across the globe.

Google Arts and Culture (https://artsandculture.google.com/explore)

Takes people inside cultural and historical events and provides street views of famous landmarks or sites.

<div style="border:1px solid black; padding:1em;">

The Louvre Visit

Today we are going to take an exciting trip to Paris, France! Your ticket is www.louvre.fr/en and your vehicle is your computer, tablet, or phone. Please read the instructions carefully so your trip is not wasted. I want you to have fun and learn something new in the process. We will have a round-table discussion on our magnificent trip on Friday. Have fun and I can't wait to hear about your adventure!

1. As your tour guide, I suggest you learn some information about the Louvre Museum because you begin your tour. Start at the *Collection and Louvre Palace* link. *Read the information about the history of The Louvre. You are in Paris and you call home to talk to someone your love. Tell them about the Louvre's history in 3–5 sentences. Include why the museum was established and how it has been important to France.*

2. Now you are ready to take your tour. Using the same link go to *Online Tours.* Choose following tour: **Egyptian Antiquities,** *Walk around on the floor to several areas. Spend 10 minutes learning how to navigate through the museum floor. Go to the help menu for ways to better navigate the tour.*

3. Choose one sculpture from your tour. Analyze how it reflects the culture of Egypt.

4. Interpret the artwork. Communicate the artist's statement. Describe what you think the artist is trying to say through the work of art. Expound on the feeling conveyed by the artwork. Describe what the

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artwork means to you, and why. Explain what you feel is the artist's intended purpose for creating that particular work of art. Examine why the artist made the choices in technique, materials and subject matter and how they relate to the intended purpose. Your narrative should be approximately one page.

Note: For more suggestions, visit www.wikihow.com/Critique-Artwork (the suggestions in number 4 are an excerpt from this site).

Ideas for Other Content Areas

Math: Students can plan the trip to the Louvre, look up the flight, and calculate the cost.

Social Studies: Plan what to take and how to pack, discuss how to prepare to visit the country, learn about Paris, and the French government. Also discuss the history of Egypt and the symbolism of the historical time period.

Language Arts: How did the authors and poets of Egypt impact the culture? Also teach about critiques and writing the analysis.

⏸ PAUSE

Pause and Reflect: *Which of these three large strategies would help your students?*

Rigorous Summative Assessments

Multiple Choice Tests

Electronic Tools for Multiple Choice Questions

Infuse Learning
Quiz Socket
Kahoot!
Quizizz
Google Forms

Essay Tests

How has human behavior affected soil erosion, and how will this affect life in 20 years? What changes would you recommend, if any, to minimize the effects on erosion? Your response must be based on a minimum of three credible sources other than your textbook, include evidence cited specifically from the sources and incorporate real-life examples and applications.

Performance-Based Assessments

Tools for Electronic Portfolios

VoiceThread

Kidblog

Three Ring

EduBlog

FolioSpaces

Googlios (from

Google)

Weebly

Evernote

Samples

Research and Writing

Choose a controversial issue of interest to you (or from an assigned time period/ political platform). Use credible sources to research the various perspectives surrounding the topic. Based on the information learned, explain two or more possible solutions to the controversy that would address the key aspects of the issue. Finally, write a logical argument that

contains a proposal/ compromise to satisfy groups on both sides of the conflict.   In your argument, be sure to explain how you will address the problem and justify your solution with logic and evidence from research.

Exploring Perspectives/Dinner Parties

Imagine a dinner party with esteemed guests such as Stalin, Truman, Churchill, and Eleanor Roosevelt.   Using your knowledge of the Yalta, Potsdam, and Tehran conferences in the 1940's, write a script in which these historical figures converse about their different views of what the world would look like after World War II. Choose a character, and role play this scenario, keeping the original integrity of your guest intact. At your dinner party, be sure to include what each historical figure would say about the state of society today.

Math
Students identify a situation or problem that can be improved or solved using geometry. They design the plan and describe why it would solve the issue. Ex: Our main offices in the school will be closed for renovation next month. This will require relocating the offices. Find a different location in the school that could be adapted for use by the main offices, and create a design plan for the offices, using skills you have learned in geometry. You must fit all existing furniture into the new space. Generate a list of other considerations you would need to make and include your solutions.

Art
Students move through an art gallery of work created by their classmates. Each student chooses one piece of art and writes a short critique. The critique must include the student's opinion of the artwork, support of the opinion based on the lesson taught by the teacher and the student's own experiences, and recommendations for improvement.

> **Pause and Apply:** *How can you adjust your performance-based assessments to be more rigorous?*

PAUSE

Suggested Follow-Up Activities

1. Reflect on the activities we discussed. Choose one and implement it into your classroom. Then, revise and adjust to make it more effective for your students.

2. For additional ideas to spark your imagination, read two of the following three articles?

Rigor and Technology:

https://www.teachthought.com/pedagogy/how-technology-can-increase-rigor-in-the-classroom/

https://www.edcircuit.com/6-technology-ideas-to-increase-rigor-in-classroom/