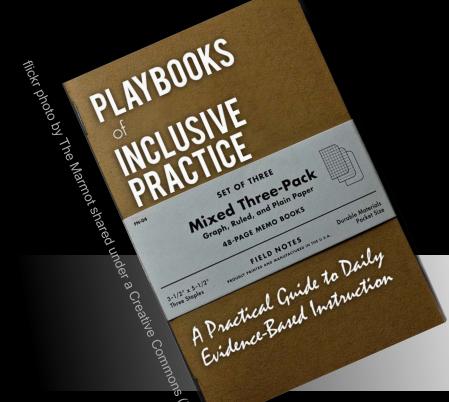
# N J COALITION FOR INCLUSIVE EDUCATION





# Assessing Independent and Collaborative Thinking when Students Learn in Small Groups



Rhonda Bondie, Ph.D. Graduate School of Education ©2016



## INTRODUCTION

to ME



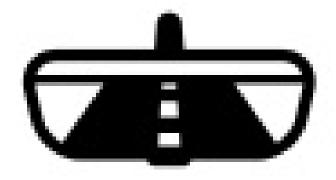


## SPECIAL THANKS TO

## LOUISEBEER

Teacher:





## **Review and Reflect**

Looking back to go forward

## SEE PREVIOUS WEBINARS

## http://njcie.org/all-ed/

NJCIE				INCLU	JSION W	ORKS!
N J COALITION FOR INCLUDING SOUCATION	WHO WE ARE	WHO WE SERVE	RESOURCES	JOW/GIVE	NEWS/EVENTS	WEBWARS
****	****	*#*#*#*#*#	#*#*#*#*	****	*****	***
HOME × All Learners Learning Every Day (ALL-ED) ?	HEE Webmar Seven				Distor to search	
ALL LEARNERS LEAR	NING EVER	Y DAY (AL	L-ED)			
FREE WEBINAR SERIE	ES				шескием	

#### When

October 15, 3:30 - 4:30 p.m.	Managing Small Group Learning
December 3, 3:30 - 4:30 p.m.	Co-Teaching Playbook
January 7, 3:30 - 4:30 p.m.	Developing Literacy through Small Group Rigorous Discussions
February 4, 3:30 - 4:30 p.m.	Assessing Learning when Students Work in Small Groups
March 3, 330 - 430 p.m.	Self-Regulation (Part 1): Setting Realistic and Productive Goals
April 14, 3:30 - 4:30 p.m.	Self-Regulation (Part 2): Student Driven Monitoring and Evaluation of Learning
May 5, 3:30 - 4:30 p.m.	Structuring Student Choice
June 2, 3:30- 4:30 p.m.	Planning Effective Formative Assessment

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## Goal



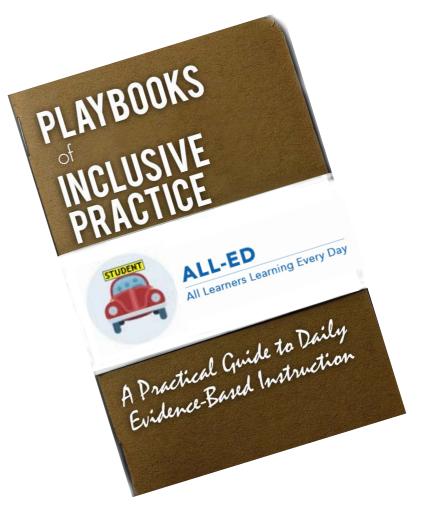
## Autonomy Belonging Competence



for all learners every day



Thinking
Formative Assessment
Inclusive Directions



Routines happen every day

Self-Regulation

Group Learning

## Webinar 1: Managing Small Group Learning



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## PREPARE STUDENTS



## ON YOUR OWN VS TEAM LEARNING

	Independent Task	Group Learning	Table Talk
Physical Set-Up	Eyes on own paper	Sit knee to knee and eye to eye	Sit where you are
How	Work alone	Work collaboratively	Work collegially
Support	Use classroom resources for support.	Use classroom and peers as resources for learning.	Use classroom, peers, and teacher as resources for learning.

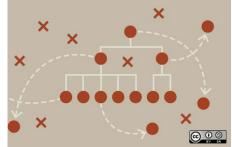
## How PLAYS WORK:

## FOUR PARTS











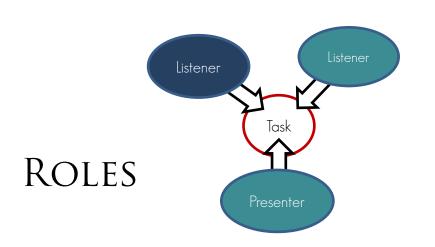
flickr photo by stevechihos shared under a Creative Commons (BY-NC-ND) license lickr photo by MGShelton shared under a Creative Commons (BY-NC) license

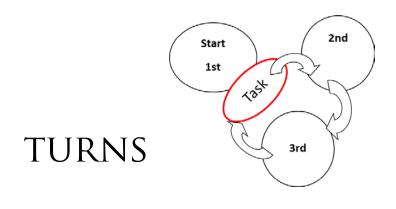


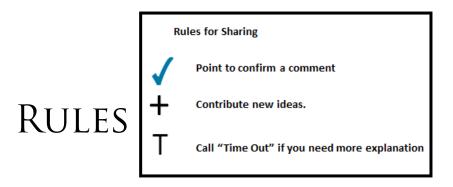




# Inclusive directions for the ACTION PATTERN



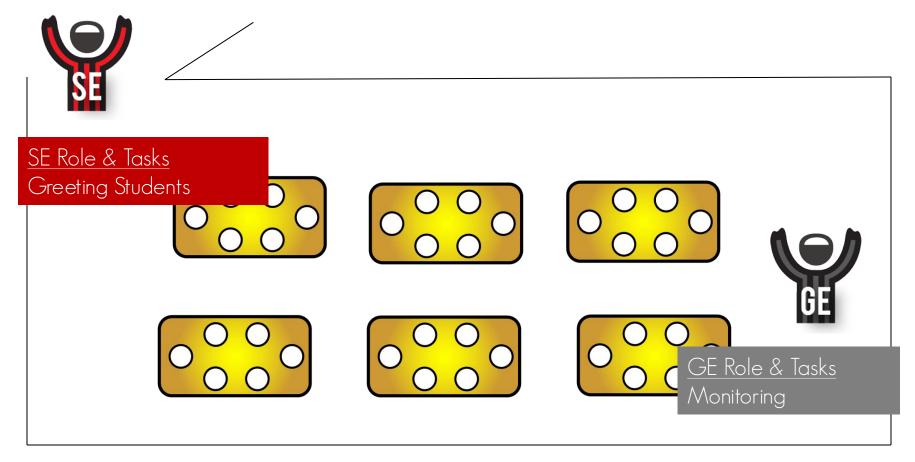




TIME



## Webinar 2: Co-Teaching Playbook



# STUDENTS WILL UNDERSTAND THE LINE OF BEST FIT AND WILL BE ABLE TO USE A CALCULATOR TO FIND THE LINE OF BEST FIT.

Play	Time
1. Entrance	1 minute
2. Opening	5 minutes
3. Correction	7 minutes
4. Hook	5 minutes
5. Vocabulary Instruction	6 minutes
6. Team Challenge	23 minutes
7. Exit Card	3 minutes
7 Plays	50 minutes









ACTION



#### FIND

Materials



Mind on unit topic

#### PHYSICAL SPACE

Hands on pencil and notebook at home base seat

#### WITHIN GROUP

On Your Own

#### 1. Enter

- 2. Greet
- 3. Organize

#### **INCLUSIVE DIRECTIONS**

#### ROLES

SE: Welcomer GE: Evaluator St: Problem Solver

### TURNS

ALL Together

### RULES

- 1. Quiet
- 2. Find focus
- 3. Use classroom resources

TIME



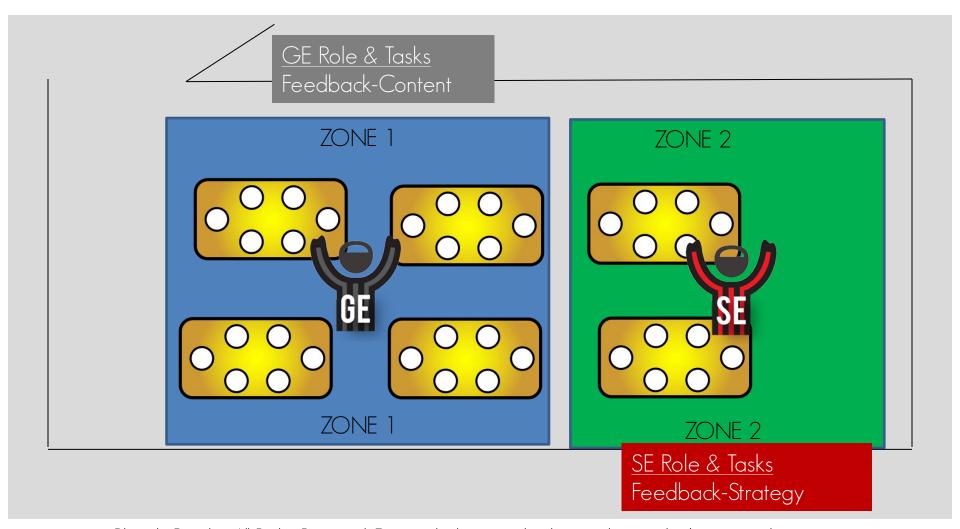
minutes

### **MUST HAVES**

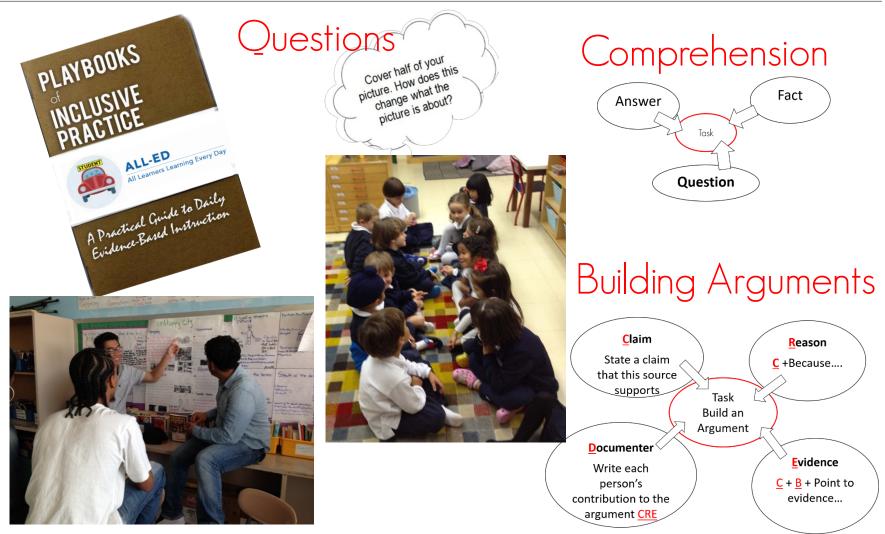
- In seat before
   1 min
- 2. Materials organized
- 3. On own using help resources



2. Whole Group: Monitoring of Writing Definition



# Webinar 3: Developing Literacy Skills through Rigorous Discussions



## SL Standard 8.1



K

Engage effectively in a range of collaborative discussions with diverse partners on grade 8 topics, texts, and issues building on others' ideas and expressing their own clearly.

2

4

Follow rules for collegial discussions

and

decision-

making, track

progress toward specific goals and deadlines, and define individual roles as needed. Come to discussions prepared having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion

Pose questions

that connect the ideas of several speakers and

respond to others' questions and comments with relevant

Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.

7

8

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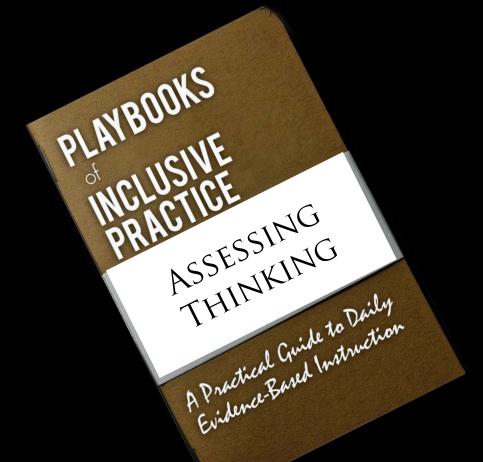
## Rigor = Effort \* Complexity

**Energy** needed to sustain focus for a required amount of time

Number of parts

Ways the parts fit together

Thinking required to manipulate the parts



## TODAY'S ÁGENDA

## AGENDA

Learning Structures: Independent, Group Learning, and Table Talk

Part I Documenting Thinking (Post it Charts, Stamps, Rubrics)

Part II Group Learning (Rumors)

Part II Zoom In (Graphic Organizer, Elbow Exchange)

Part IV Review

Next Steps & Questions

## Take the Quiz to Earn a Professional Learning Certificate

First Name *	
Last Name *	
Email *	
The Common Core Standards f 12th grade to: *	or speaking and listening expect all students from Pre-K through
Express their own ideas clearly	
<ul> <li>Build on the ideas of others'</li> </ul>	
<ul> <li>Engage in discussions with div</li> </ul>	erse partners
<ul> <li>All of above</li> </ul>	

## Download Our Handout and Today's PowerPoint

#### Actions that Promote Seven Types of Thinking

#### Curious

- Wonder
- Ask questions
- Observe closely
- Find problems
- Be playful

#### Intellectually Careful

- Evaluate Evidence
- Alert for errors
- Check for accuracy
- Corroborate information
- Justify opinions with evidence

#### Reflective

- Compare a product to criteria
- Evaluate a process
- Seek understanding
- Gather other opinions

#### Strategic

- · Set goals
- Take action
- Evaluate and revise plans
- Use knowledge to make decisions
- Reason through problems

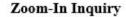
#### Creative

- Create novel solutions
- Make unusual connections
- Combine ideas
- Rearrange elements into new patterns

#### Adventurous

- Explore alternative views
- Open minded
- Think with a wide scope

## Download Our Handout and Today's PowerPoint





Zoom-In Inquiry is often used to ignite curiosity and to build background knowledge of a topic under study. During this activity, students uncover a primary source, text, artwork, student work or any other image piece by piece in order to look closely and use background knowledge to build understanding. An investigative question starts the exploration and guiding questions focused on observation, interpretation, and evaluation follow as pieces of the image are revealed one at a time. Students use evidence and subject specific

vocabulary to support their hypotheses. Students reflect on their understanding of the image and its relationship to "the big picture" or a large scale understanding that is overarching and essential to the subject. Finally, other related sources or images are presented that ask students to test the application of their hypothesis with a new source or problem.

#### Five Steps to prepare a Zoom In Inquiry

**Step1 Content:** Identify the standards of learning and essential question or big idea for the topic under study and find a unique source that will spark curiosity and activate or further background knowledge.

Step 2 Visible Thinking: Create an idea tracker for students to monitor and assessing their thinking during the activity. For example, these trackers use a <u>Project Zero Visible Thinking Routine</u>. An essential question posed at the top for students to consider. Students jot down their claims about the source, supporting evidence and either questions or connections based on this evidence. Questions are useful for pursuing further research while connections are practical for reviewing previous lessons or making explicit connections to a text book.

## Download Our Handout and Today's PowerPoint

#### Zoom-In Inquiry Construction Directions

- 1. Open PowerPoint.
- 2. Choose a solid color for the background. Go to Format Menu -> Background
- 3. Type the directions for students on the first slide.
- Insert a high resolution image on the second slide.
- 5. Right-click on the image and choose Show Picture Toolbar, if picture toolbar isn't showing.
- 6. Click on the image.
- Choose the Crop tool from the Picture Toolbar.
- 8. Place the cursor on a corner of the image (it should look like an "L").
- 9. Click and drag to make the image smaller.
- 10. Click on Insert Menu -> Duplicate Slide
- 11. Enlarge the image slightly for the new slide using the crop tool,.
- 12. Repeat steps 9 & 11.

Thanks to Marc Perella, Fairfax County Public School, Virginia.

#### How do I insert the questions?

Insert a text box on each slide in a Zoom-In. On the first slide, type the directions for students. Example: Examine the primary source clues carefully. Determine what you see and what questions you might ask to get the "big picture." On the next slide, present the investigative question. On subsequent slides, add the questions that will lead the students down the path of inquiry toward reaching the "big picture" or understanding goal. Spiral questions from the concrete to the abstract.

## **Directions for More Group Learning Routines**

http://www.all-ed.org/group\_learning\_examples



ADD GASSS •

CARR CHECK •

ABOUT -

#### GROUP LEARNING GALLERY OF EXAMPLES



Group learning enables students to use discussion routines to collaborate with peers and deepen their own understanding in ways that cannot be accomplished alone. Group learning is an essential component of a differentiated classroom because while students are independently collaborating in small groups the teacher is free to observe and assess, conduct a small group mini-lesson, and/or offer individual tutoring.

Danielson 2a, 2b, 2c, 3a, 3b, 3c, 3e)



🏠 To track your learning about group learning; <u>Click here to download a Learning Gauge</u>

Educational Leadership Article Highlights Group Learning Routines in Two Secondary Math Classrooms at the International Community High School, South Bronx, NY.

Examples of Group Learning Routines by number of participants

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## GOAL for TODAY

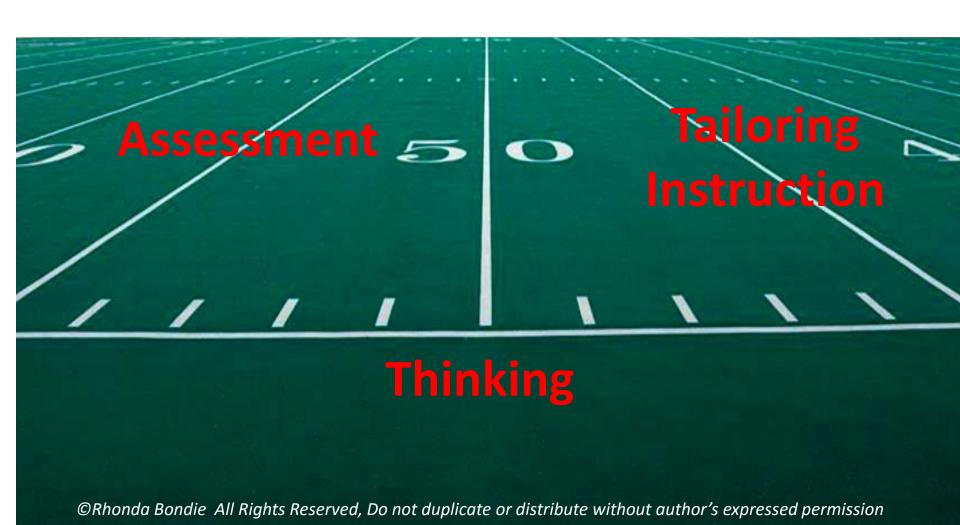


## GOALS FOR TODAY

Participants will be able to:

- collect and analyze assessment data through a group learning routine.
- identify actions that support different types of thinking.
- ☐ tailor instruction to meet specific student learning needs.

## STARTING POSITION

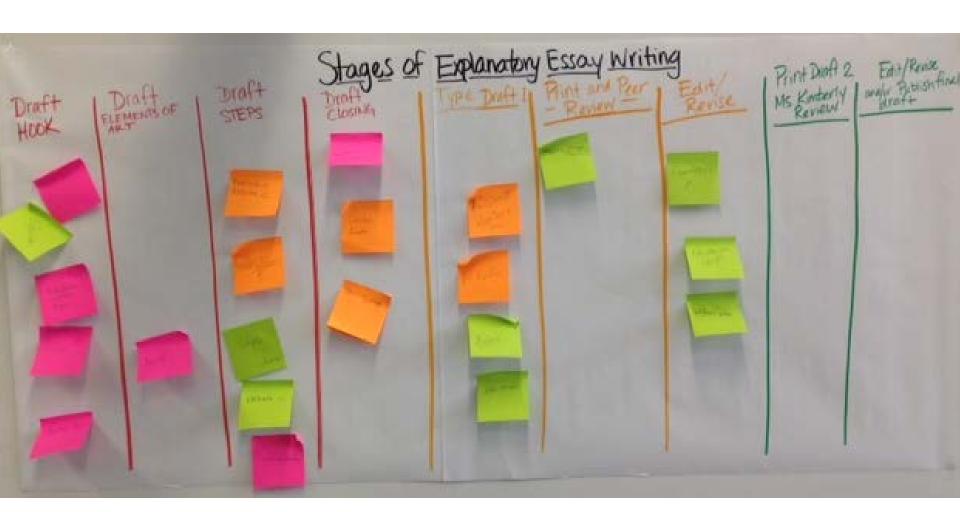


# PARTI

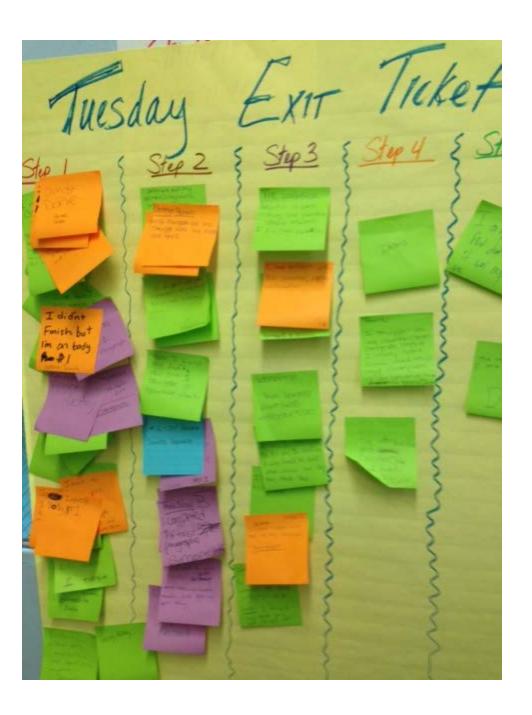
# Collecting and Analyzing Assessment Data

## **Monitoring Progress**



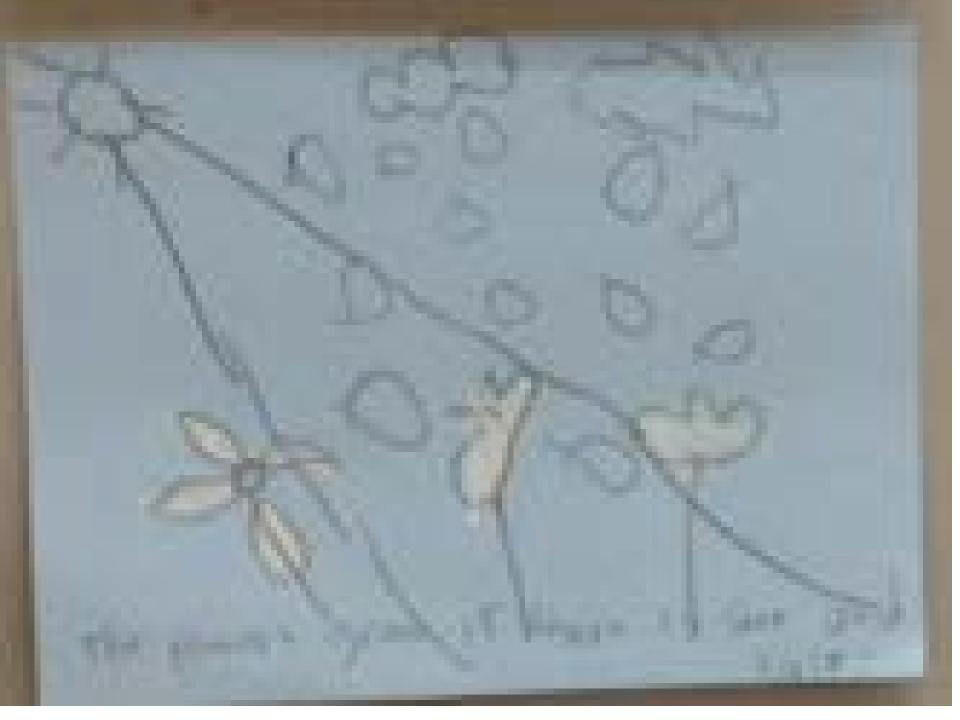


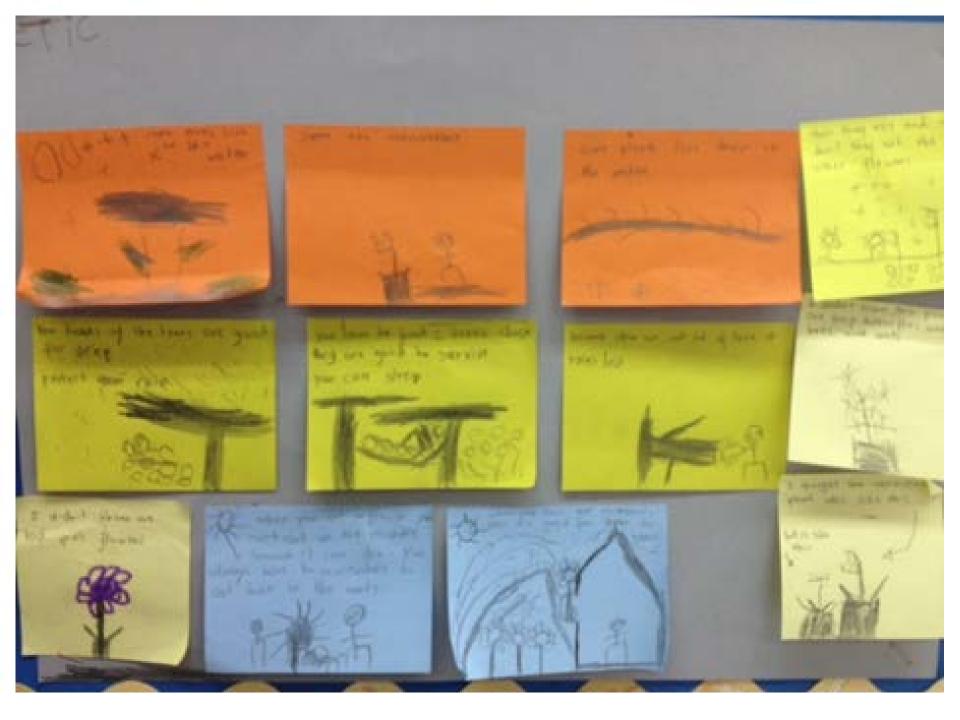
## **Assessing Learning**











# Quality Criteria and Noticing Skills

### Self-Regulation

How are you learning?



#### **Learning Journals**

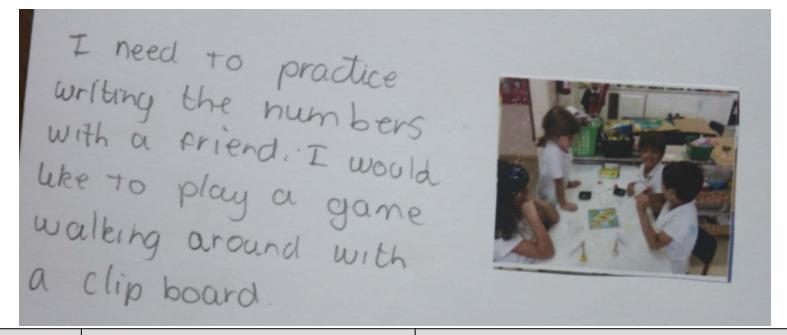


#### Reflection Routine

Look carefully at your learning from (this week, this unit, or today).

- 1. What was the activity that you liked the most?
- 2. Why did you like this activity?
- 3. Why do you think the teacher asked you to do this activity?

I had to look for the cards and write words on the board. I liked this best because I helped Luca write and Luca helped me too. I had to do this because it was a bit difficult and fun.



Level	Definition	Example quote written by the child
1	attempts to answer question	"I was looking for numbers and adding."
2	answer contains details	"I was doing the pyramid challenge. I was learning to add the numbers."
3	answer contains an analysis	"I was doing my clothes. I was practicing to cut. I was using my concentrating skills."

#### Performance and Monitor

At the end of the rounds choose one person to provide feedback. Provide feedback to your peer based on the following criteria

- a. What's the evidence that the response given was correct?
- b. How could they make their response better?
- 1. Write your thoughts on the post it provided. Give your peer the post it. Do not discard this feedback. You must tape the feedback that you received from your peer in

the box below in the		Wednesday	Thursday	Friday
Monday  Form Learning  Form Learning  Formula and the property of the property	Feedback  Good Cuidor  Providing  1000 endance  for your  unswer.	Feedback and long	Feedback	you tak down menul notes and did a good lob capter
3 Read the writing prompt	P. 15		ither maintain or increase your ing target. Write a response to	our maste I At a Your Name of the prior of t

day. Organize your thoughts in a way that is meaningful to you.

Was my plan effective today? How do I know?

Monday	s to the questions reflect mastery of the Tuesday	Wednesday	Thursday	Friday
eflection	Reflection	Reflection	Reflection	Reflection
11 1	TTOOK NOTES	I soused the		Tujez
195 becouse	Softed helpos s me out alot	Lawselthe hots		nd rote
Scol ned kode	South Durkhos	1010		. 2
no a mily	" me out anot			
1 - No Was Bull	15			
todo the gues	774			

Friday Reflection I think I did hay but didn! master because t lack on cell structures functions I did my host to fallow y plan had traits n-explains

# Over a Dozen Tools in Our Handout

Connect	Extend	Challenge

Quick and Effective - Practical Pre-Assessment Strategies

Mind Maps – a diagram used to regressent words, ideas, images, are facts centered around and connected to a specific topic. Process created by Tony Susses.

Think I know - Questions Chart

KOR (K+ think I know, G+ guestions and wonderings, R+what I will need or research) to stone about students interests and swareness of resources.

Pointier-Pass – tell students the upcoming topic. Then gass a notaged around the class and challenge students to write notes about what they know, skills they need, facts they want to know and questions related to the tonic.

Think I know	Questions
--------------	-----------

scher and gractice student metacognition cagarding-knowledge, rikes, facts learned, and identify misconceptions

b. No Cliuel eludents respond to teacher guestion with yes or no. If is, teacher takes notes about what was known, misinformation, and takinged in instruction.

write it, create a sample to danier

! in Angelo and Cross, Classroom Assessment Techniques) asks were to two questions: rtant point made in class today? In do you at il have ting with a one sentence comment.

te of the sheet gase three questions. The first two questions are previously isught and the third question addresses the topic of the ere to be answered grior to beginning of the lesson. On the reverse questions including:

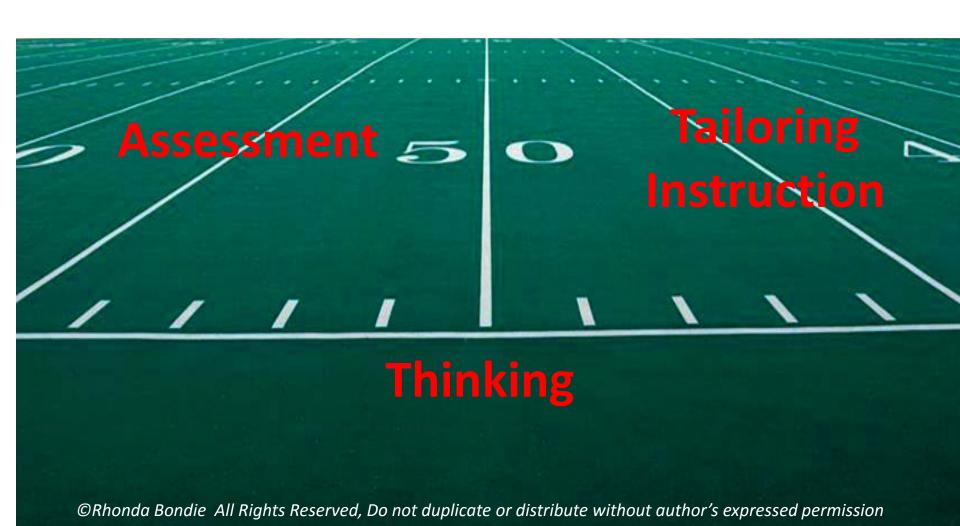
Project Zero Visible Thinking Core Rout

#### Next Webinar March 3

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May 5, 3:30 - 4:30 p.m.	Structuring Student Choice
June 2, 3:30- 4:30 p.m.	ABC of Motivation and

**Promoting Self-Regulation** 

### STARTING POSITION



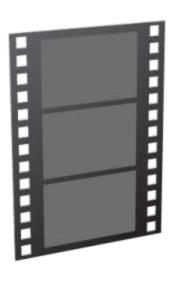
# PARTII

### Rumors

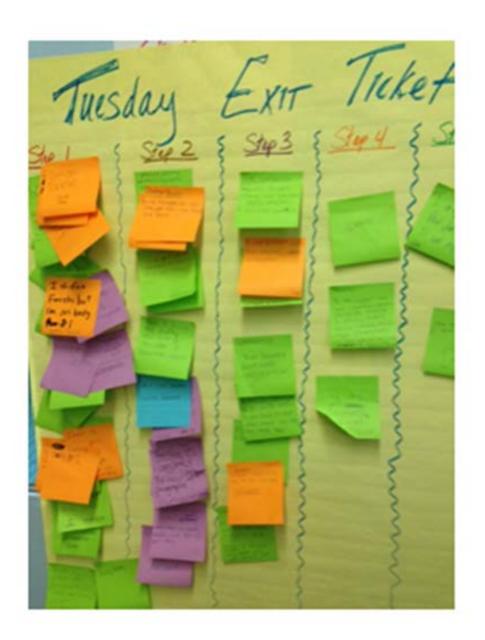


#### Rumors

- 1. Listen
- 2. Share
- 3. Exchange



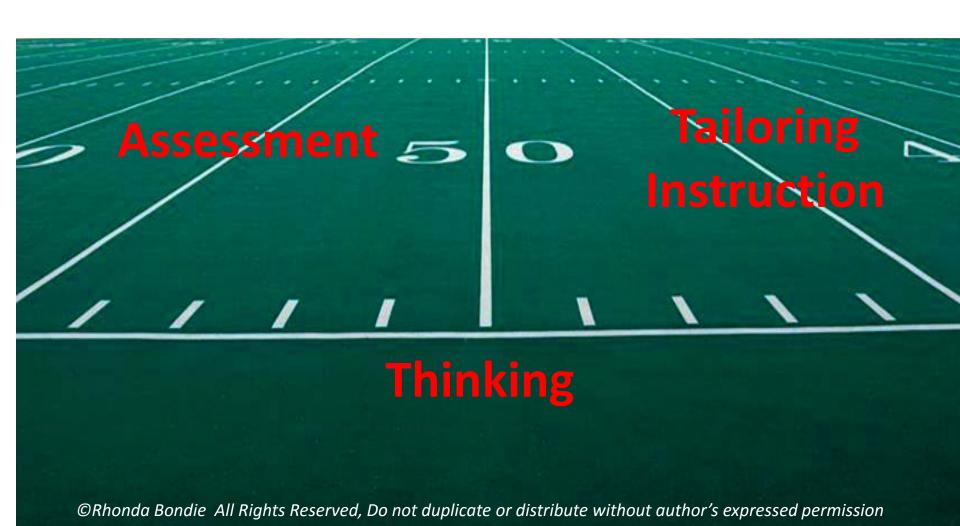




## COLLABORATIVE THINKING



### STARTING POSITION



# PARTIII

## Zoom In Inquiry

#### ON YOUR OWN VS TEAM LEARNING

	Independent Task	Group Learning	Table Talk
Physical Set-Up	Eyes on own paper	Sit knee to knee and eye to eye	Sit where you are
How	Work alone	Work collaboratively	Work collegially
Support	Use classroom resources for support.	Use classroom and peers as resources for learning.	Use classroom, peers, and teacher as resources for learning.



## Zoom-In Inquiry

Examine the clues carefully.

Determine what you see and what questions you might ask to "get the big picture".

### What do you see?



Describe who you see in this image.

Where do you think this image was taken?



# What new people or things do you see?

# When do you think this image was taken?



# Make a hypothesis about what is happening in this picture.





What new evidence do you have to support or shift your hypothesis?
Why do you think this image was created?



Spectators standing on a dirt road, looking at a house damaged by a tornado. Illinois 1928. Photographs from the Chicago Daily News, 1902-1933 American Memory, Library of Congress

### Thinking about your Thinking



- How did your perception of the image change as you saw more of the image?
- Why did your hypothesis change?
- What questions did the image leave you with?

### Understanding the "big picture"



How might we describe the relationship between humans and nature?

### What do we know about the relationship between humans and nature?

Claim	Support	Question
	1	?

### What do we know about the relationship between humans and nature?

Claim	Support	Connection
		0

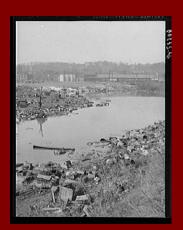
# Examine these images to determine how they help us understand the relationship between humans and nature.

Stream pollution. City dump.

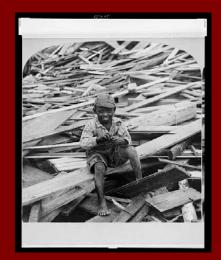
Dubuque, Iowa

Library of Congress

Prints and Photographs Division



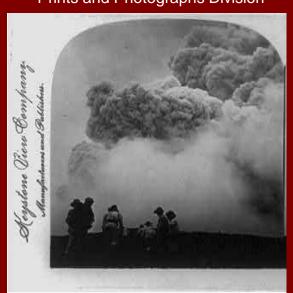
Under the descending fury of Mt. Pelee, Martinique Library of Congress Prints and Photographs Division



Galveston disaster, I'm glad Ise living Library of Congress Prints and Photographs Division



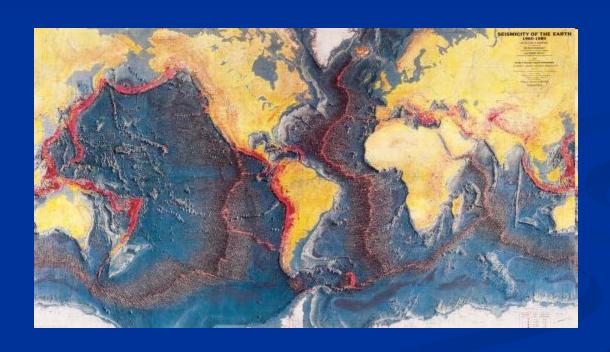
Survivors of the earthquake, Messina, Sicily, Italy Library of Congress Prints and Photographs Division



# Zoom-In Inquiry offers irresistible invitations to thinking

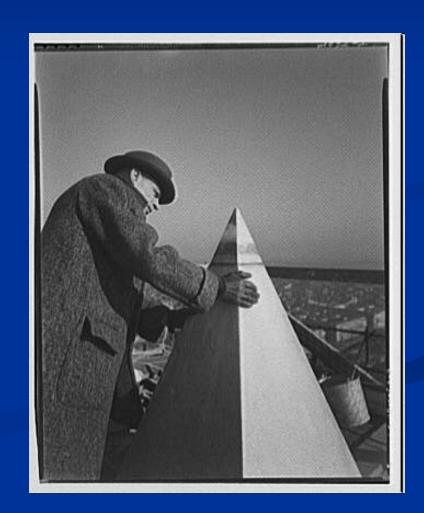


## You're invited to be Curious

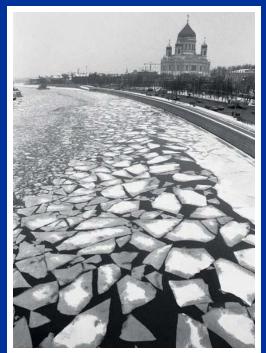


#### Curious

- Wonder
- Ask questions
- Observe closely
- Find problems
- Be playful



# You're invited to be... Intellectually Careful



### Intellectually Careful

- Evaluate Evidence
- Alert for errors
- Check for accuracy
- Corroborate information
- Justify opinions with evidence



## You're invited to be... Reflective



#### Reflective

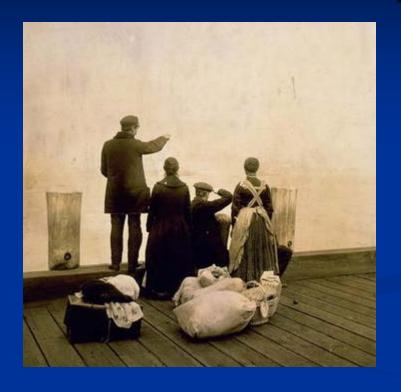
- Compare a product to criteria
- Evaluate a process
- Seek understanding
- Gather other opinions
- Consider relationship between parts and a whole

### Creating a Zoom In

#### Interest Lies in Complexity

How many people are in this picture?

#### Interest Lies in Complexity



How many people are in this picture?

#### Interest Lies in Complexity



How many people are in this picture?

#### Rigor = Effort Complexity

Energy
needed to
sustain
focus for a
required
amount of
time

Number of parts

Ways the parts fit together

Thinking required to manipulate the parts

#### Assess and further understanding

- Why do you think this is the case?
- What would have to change in order for ...?
- What's another way you might…?
- What criteria did you use to ...?
- When have you experienced something like this before?
- What do you assume to be true about…?
- What is the connection between...and...?
- What sort of impact do you think…?



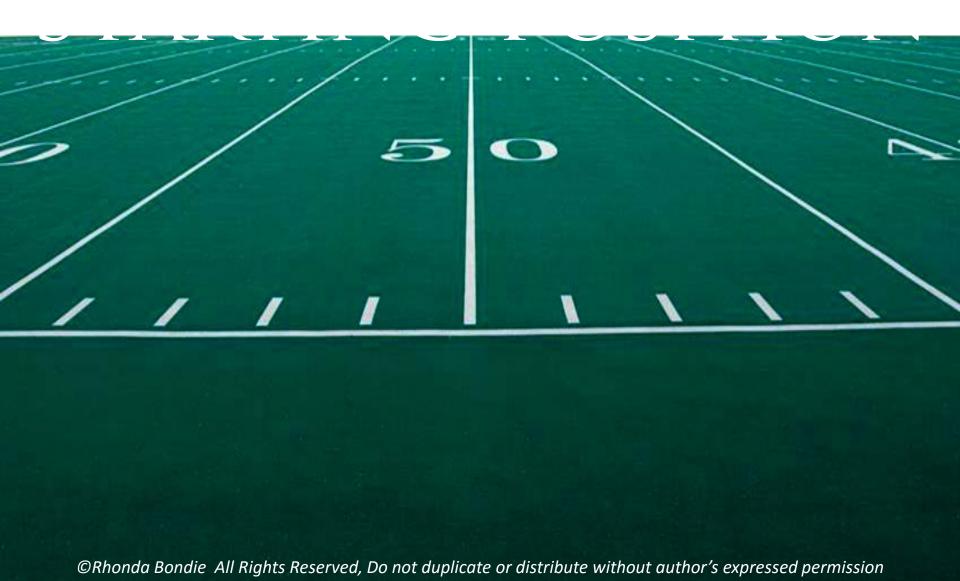
The Ambassador

August 6, 1932.

#### What do you see?

What do you think you know about this document?

#### **Tailoring Instruction**





The Ambassador

August 6, 1932.

Mr. Orville Wright, 15 North Broadway, Dayton, Ohio.

My dear Mr. Wright:

The other day I had the fun of cracking a bottle of gasoline on the nose of a new automobile. I am just dropping this line to tell you that my fun was increased when I found that the one I christened was for you. I think the Terraplane is a great little car, and I hope my naming yours will add to your pleasure.

I wish that it were possible for your many friends in the East and West to see you more often. Perhaps the new Essex will help us to do so!

Sincerely yours,

### Make a hypothesis about who may have written this document.

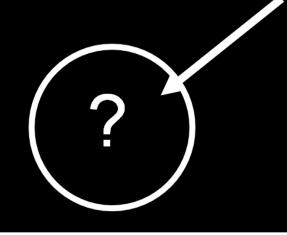
- a) Abraham Lincoln
- b) Martin Luther King, Jr.,
- c) Amelia Earhart
- d) Henry Ford

What clues support your guess?



#### 1. Who is this person?





2. List reasons to support your guess.

3. Is there another possibility? Why?

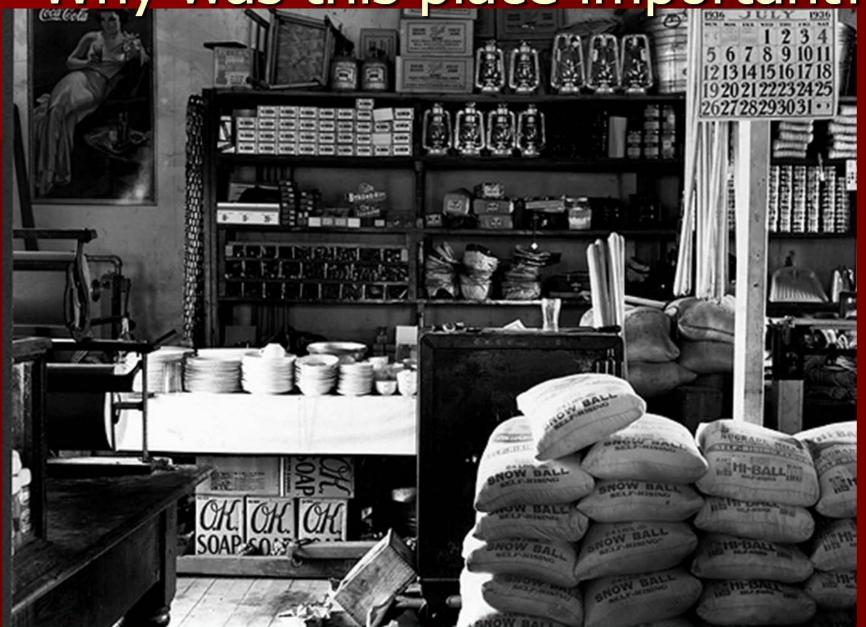
#### What do people do here?



What other items might be here?



Why was this place important?



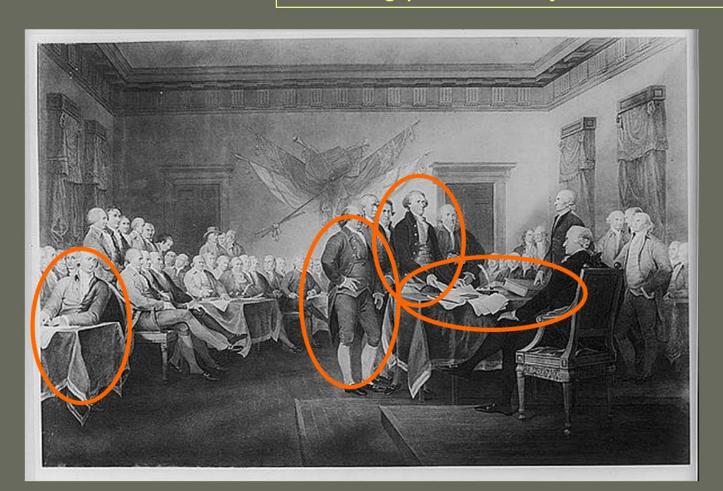
Click to show some answers. What other evidence do you see?

Man taking notes to record actions of a congress

The style of dress is colonial

Thomas Jefferson who wrote The Declaration of Independence

The papers on the desk (The Declaration) are being presented by Jefferson



## Common Core Learning Anchor Learning Standards Reading K-12: Key Ideas and Details

1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

## Common Core Learning Anchor Learning Standards Reading K-12: Key Ideas and Details

6. Assess how point of view or purpose shapes the content and style of a text.

### How did experiences of the Civil War differ?



Historical Analysis and Interpretation



How does the story told in this painting compare to what you already know about the story of Pocahontas and your understanding of history?

TITLE: Pocahontas saving the life of Capt. John Smith / New England Chromo. Lith. Co. c1870.

Library of Congress Prints and Photographs Division

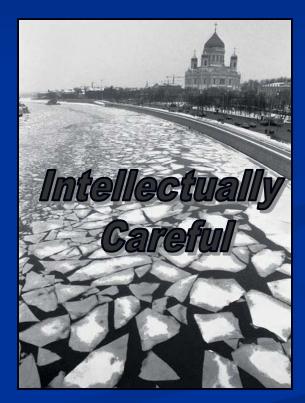
What questions does this image leave you with?

#### Historical Research Capabilities

#### You're invited to be...









## PART IV

Review

### GOALS FOR TODAY

Participants will be able to:

- collect and analyze assessment data through a group learning routine.
- identify actions that support different types of thinking.
- tailor instruction to meet specific student learning needs.





#### Rumors

- 1. Listen
- 2. Share
- 3. Exchange



### Zoom-In Inquiry

Examine the clues carefully.

Determine what you see and what questions you might ask to "get the big picture".

# Next Steps for your Teaching

### NEXT STEP ACTIONS

- $oldsymbol{\square}$  1. Use post it charts or other tools to gather student thinking.
- oxdot 2. Use rumors to find patterns in student thinking.
- 3. Use Zoom In to activate background knowledge and assess student thinking and vocabulary.
- 4. Tailor a Zoom In to meet student learning needs.

# COMPLETE THE QUIZ FOR CREDIT

#### Join us for our next webinar!

Save the Date: 3/3

ABCs of Motivation and Self-Regulation



## Questions