### Middle school course curriculum structure

#### Middle School Curriculum New York City Edition

	~
Grade	6

- Launch: Harnessing Human Energy
- Thermal Energy
- Populations and Resources
- Matter and Energy in Ecosystems
- Weather Patterns
- Ocean, Atmosphere,and Climate
- Earth's Changing Climate

#### Grade 7

- Launch: Microbiome
- Metabolism
- Phase Change
- Chemical Reactions
- Plate Motion
- Engineering Internship: Plate Motion
- Rock Transformations
- Engineering Internship: Earth's Changing Climate

#### Grade <mark>8</mark>

- Launch: Geology on Mars
- Earth, Moon, and Sun
- Force and Motion
- Engineering Internship: Force and Motion
- Magnetic Fields
- Light Waves
- Traits and Reproduction
- Natural Selection
- Evolutionary History





### Welcome to Amplify Science!

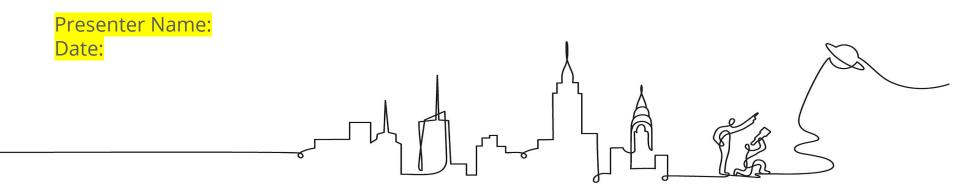
Follow the directions below as we wait to begin.

- 1. Please log in to your Amplify Account.
- 2. In the chat, share your name, school, your most current instructional context (remote/hybrid/in-person), & how many years you've been teaching Amplify Science. *(Example: Reshma, H, 2)*



# Amplify Science New York City

#### **Amplify Science Planning for Next Year** 7th grade teacher session



## Remote Professional Learning Norms



Take some time to orient yourself to the platform

• "Where's the chat box? What are these squares at the top of my screen?, where's the mute button?"



Mute your microphone to reduce background noise unless sharing with the group



The chat box is available for posting questions or responses to during the training



Make sure you have a note-catcher present



Engage at your comfort level - chat, ask questions, discuss, share!

#### Use two windows for today's webinar

	<ul> <li>O ● ● ● Meet - Etiwanda Grade 7 N ● × +</li> <li>← → C ● meet.google.com/hcs-dxpk-wrm?aut ↓</li> </ul>	☆ 🛛 ✔ 🥹 ઉ ⊳ 🗿 Ο	$\begin{array}{c c c c c c c } \hline \bullet & \bullet$		
		ది <sup>21</sup> 🗐 y <sub>ou</sub> 🎱 🚷	= Amplify Science CALIFORNIA > Plate Motion > Chapter 1 > Lesso		
Window #1	More Carged Neigenbor Phage: X	– σ X D0*progres-build ● 🗴 🗷 🖲 🚺 I	Lesson 1.2: Using Fossils to Understand Earth		
	Progress Build Level 1: The Earth's entire outer layer (below the water and soil that we see) is made of solid rock that is divided into plates. Earth's plates can move. Underneath the soil, vegatation, and water that is exe on the surface of Earth is the outer layer of Earth's opposed, and you are done to surface of Earth is the outer layer of Earth's opposed, and you are done to surface is divided into sections called plates. And, these plates are moving away from each other, rock rises from the martle and hardens, adding new solid rock to the edges of the plates. And these plates are moving away from each other, rock rises from the martle and hardens, adding new solid rock to the edges of the plates. A plate boundaries where the rand sinks into the martle. Underneath the soil, vegatation, and water that we see on the surface of Earth is the outer layer of Earth's googohere. the solid part of our rocky	<ul> <li>Flextension Compilation <ul> <li>Investigation Notebook</li> <li>NOSS Information for Parents and Guardians</li> <li>Print Materials (11" x 17")</li> <li>Print Materials (65" x 11")</li> </ul> </li> <li>Offline Preparation <ul> <li>Toaching without reliable classroom internet? Prepare unit and lesson materials for offline access.</li> </ul> </li> </ul>	Lesson Brief (4 Activities) 1 WARM-UP (4 Activities) 2 WARM-UP Warm-Up P Tracher Why Geologists W Possils	Nue  2 TEACHER-LED DISCUSSION Introducing Mesos	
	Getting Ready to Teach         ~           Equalities         Materials and Preparation         ~	Offine Guide	Lesson Brief Overview •		
			Differentiation Supervised States and States	Argumentation Wall Diagr	

# Overarching goals

By the end of this 3-hour workshop, you will be able to:

- Reflect on your implementation of Amplify Science in the targeted areas of digitally-enhanced learning, supporting diverse learners, & disciplinary literacy.
- Utilize these reflections to begin targeted planning at the unit & lesson level for the upcoming school year.





## Plan for the day

- Framing the day
  - Welcome and introductions
  - Anticipatory activity
- Targeted Implementation Reflection
  - Digitally-enhanced learning
    - Remote/Hybrid Resources Utilization
  - Reaching diverse learners
    - Utilizing Embedded Assessments
    - Culturally Linguistically Responsive Teaching
  - Science & Literacy
    - Accessing Complex Texts
    - Supporting Academic Discourse
    - Writing In Science
- Guided Planning
  - Unit internalization protocol
  - Chapter & Lesson-level internalization
    - Planning & pacing
- Closing
  - Reflection & additional resources
  - Survey

## Anticipatory activity

#### Reflect & share

• Complete your

#### self-assessment

Then, on the Jamboard,
 "post" the "I do"

statement you identify

as your greatest

strength



#### Self-inventory: choosing an area of focus for planning

<u>Directions</u>: Use the statements to help guide your areas of strength & support for guided planning.

I don't	I try	I do







## Plan for the day

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# AmplifyScience@Home

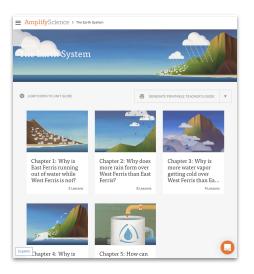
A suite of resources designed to make extended remote and hybrid learning easier for teachers and students.







# **Resource options**

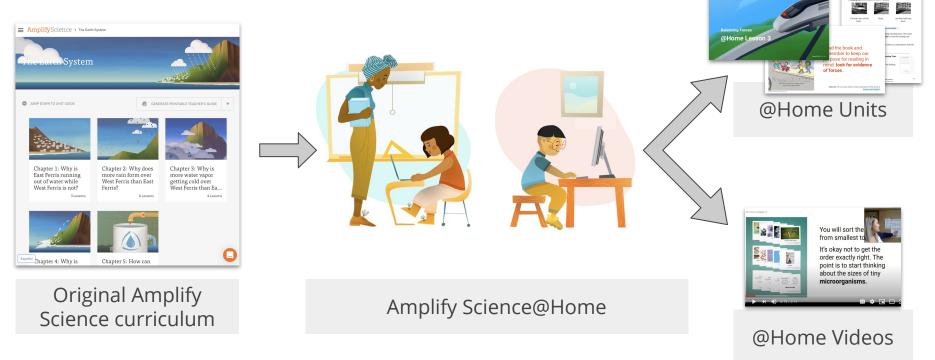




#### Original Amplify Science curriculum

#### Amplify Science@Home

## Resource options Related but unique resources



### Targeted reflection

We'll reflect on each area, following this structure:

- Brief overview of area/topic
- Model activity
- Reflect & share insights





#### Collaborative reflection: digitally-enhanced learning

On the slides, enter:

- Successes
- Tools & strategies you found helpful
- Challenges
- Your next steps in this area

#### Digitally-enhanced learning

Successes	Tools/strategies you found helpful
Challenges	Vour nort stons in this area
Challenges	Your next steps in this area
Challenges	Your next steps in this area
Challenges	Your next steps in this area
Challenges	Your next steps in this area





## Plan for the day

- Framing the day
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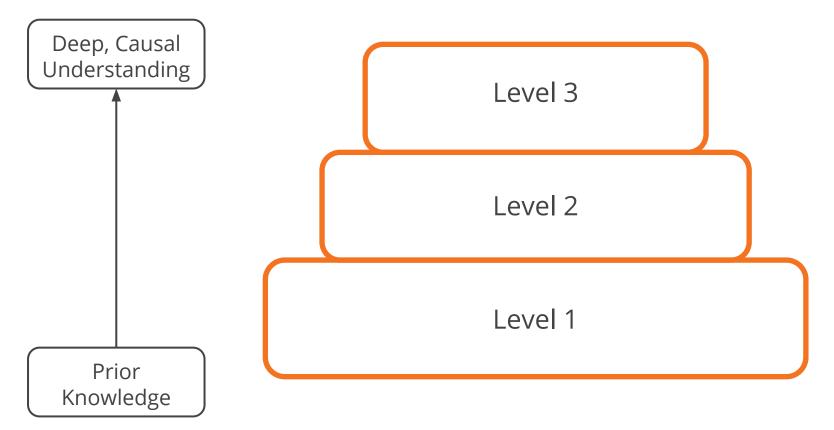
#### **Utilizing Embedded Assessments**



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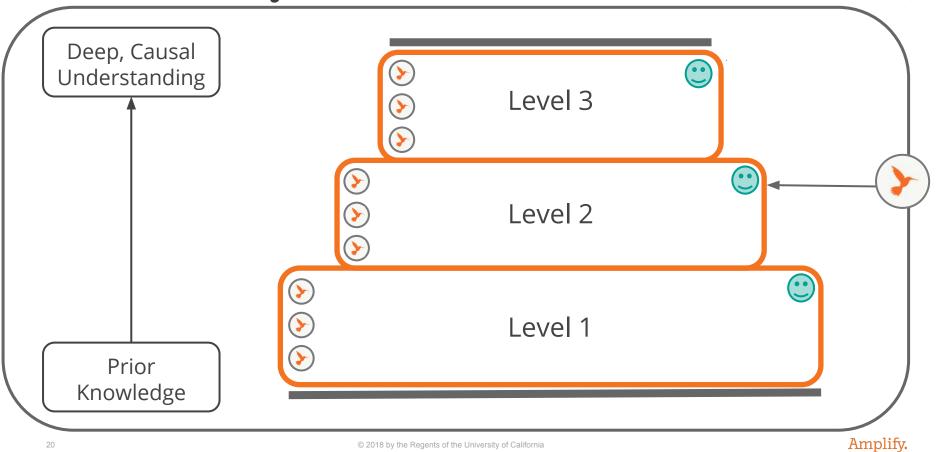


### Progress Build: A unit-specific learning progression





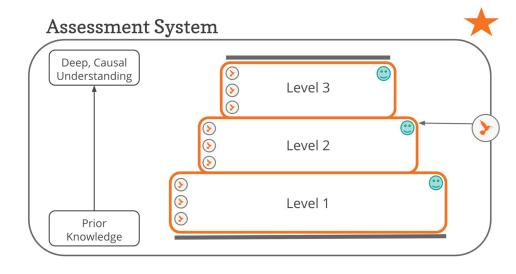
#### Assessment System



# **Assessment System Reflection**

There are many assessment opportunities in each Amplify Science unit.

**Question**: What does having this quantity of assessment opportunities do for students? For teachers?



# **On-the-Fly Assessments**

- Occurs throughout the lessons
- Three-dimensional tasks that span a range of modalities
- Provides evidence of how a student is coming to understand core concepts and developing dexterity with SEPs and CCCs
- Designed to help a teacher make sense of student activity during a learning experience
- Contains Look For / Now What resource for analyzing student responses

# **Collecting Data**

How do you typically collect and record student data?

What strategies have you successfully used for collecting data in a remote learning setting ?



## Data Collection Tool Sample

#### Lesson 1.5 Activity 3: Modeling the Relationship Between Atmosphere and Climate

Look For 1: Shows correct atmospheric trends Look For 2: Shows trends correlate with increased surface energy absorption

(X indicates student did not demonstrate Look For.)

Student	LF1	LF2	Notes
Samya	x		CO2 decreasing
Devon	x		High amounts of sulfur dioxide, then high amounts of methane
lyakiel			
Dantaijia			
Samuel		x	Increasing CO2, but decreasing energy absorption
Alexcya			
Sallie	х		Showed increasing sulfur dioxide
Nevaeh B.	×	x	Decreasing methane and decreasing energy absorption. Explanation said that the air is hotter, so the surface must be cooler.
Salvador			
Yanailis			
Michelle			
Nevaeh Y.			
Corey			
Khadijah			
Victoria			
Kalil			
Andrew			
Kai'Aisja			
Nehemiah			
Oscar			





### Culturally Linguistically Responsive Teaching



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The Amplify Science curriculum was developed with supporting diverse learning needs in mind.



Two overarching conceptual frameworks informed Amplify Science's approach to ensuring access and equity for all students:

Universal Design for Learning & Culturally Linguistically Responsive Teaching.



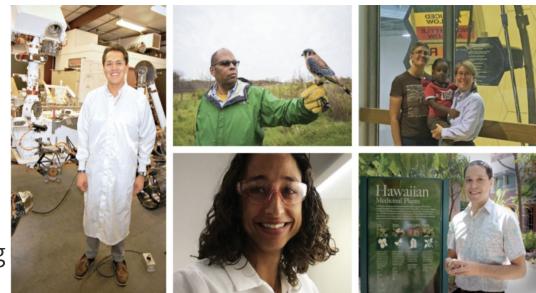






### Access and Equity Culturally and linguistically responsive teaching

Culturally and linguistically responsive teaching (CLRT) principles emphasize validating and valuing students' cultural and linguistic heritage and creating positive and nurturing learning environments so that learning is more effective.



Source: (I): Aaron Yaazie; (um): Kyle Spradley/ University of Missouri; (Im) Dr. Grace O'Connell; (ur) Jane Rigby; (Ir) Tina Shelton/ John A. Burns/ University of Hawaii at Manoa Access and Equity

## Culturally and linguistically responsive teaching

**Think, type, chat:** What have you leveraged from the Amplify curriculum to support culturally and linguistically responsive teaching?

CULTURALLY AND LINGUISTICALLY RESPONSIVE TEACHING PRINCIPLES

Promote a positive disposition toward diversity:

Leverage students' cultural and experiential backgrounds

Value language diversity and multilingualism:

Cultivate students' development of the language of science:

## Differentiation strategies to support ALL students

t.rsinha-das@tryamplify.net Log Out Go To My Account Classroom Language Settings LLA RESUUICES IIIIEIIII Assessments  $(\mathfrak{P})$  $\pi_{\mathrm{W}}$ LA Science Program Hub **Program Guide** H Science Program мар Guide Help

#### Access and equity **Amplify**Science Universal Design for Learning **Amplify Science** Culturally and linguistically responsive Welcome **Differentiation strategies Program developers** - English learners **Designed for the NGSS** Students with disabilities Program components - Standard English learners Scope and Sequence Girls and young women Phenomena, standards, and progressions - Advanced learners and gifted learners Assessments Science and literacy Students living in poverty, foster children and youth, and migrant Access and equity students Resources Lesson-level differentiation

#### Amplify.

# Differentiation in Amplify Science

Lesson Brief	
Overview	~
Materials & Preparation	~
Differentiation	~
Standards	~
Vocabulary	~
Unplugged?	~

# **Differentiation briefs**

#### **Categories of differentiation briefs**

- Embedded supports for diverse learners
- Potential challenges in this lesson
- Specific differentiation strategies for English learners
- Specific differentiation strategies for students who need more support
- Specific differentiation strategies for students who need more challenge



# Model activity

As you observe activity, focus on your successes, challenges, & next steps from this area of your self-inventory

#### Self-inventory: choosing an area of focus for planning

<u>Directions</u>: Use the statements to help guide your areas of strength & support for guided planning.

Statements	I don't	I try	I do
<ol> <li>I can utilize <b>digital resources</b> to enhance instruction.</li> </ol>			
2. I can administer <b>assessments embedded</b> within instruction.			
<ol> <li>I can utilize data gathered from formative assessments to guide my instruction.</li> </ol>			
<ol> <li>I can adjust my instruction to respond to the unique cultural &amp; linguistic needs, strengths, and backgrounds of my students.</li> </ol>			
<ol> <li>I can support my students in deconstructing complex scientific texts in order to bolster scientific understanding</li> </ol>			
<ol> <li>I can implement discourse routines in order to support students developing scientific understanding.</li> </ol>			
<ol><li>I can adjust <b>questioning strategies</b> to support students' scientific inquiry.</li></ol>			
8. I can scaffold students writing of <b>scientific</b> arguments & explanations.			

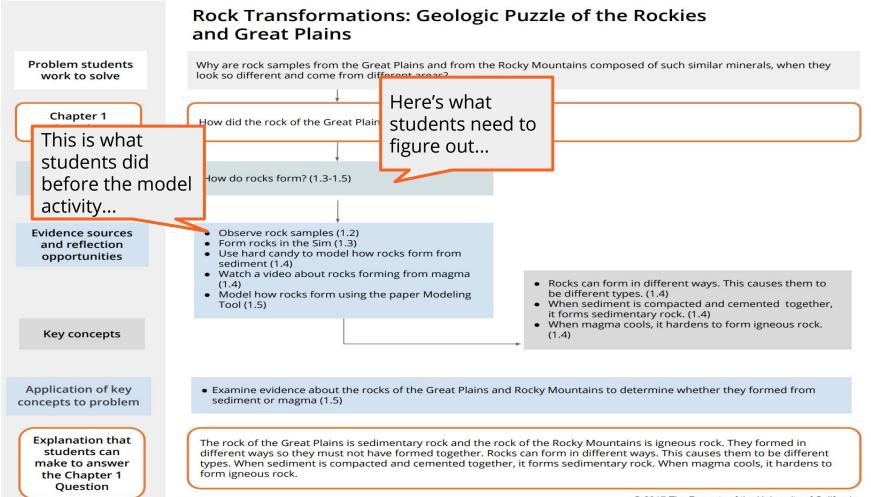




Why are rock samples from the Great Plains and from the Rocky mountains composed of such similar minerals, when they look so different and come from different areas?

Taking on the role of student geologists, students investigate a geologic puzzle: two rock samples, one from the Great Plains and one from the Rocky Mountains, look very different but are composed of a surprisingly similar mix of minerals. Did the rocks form together and somehow get split apart? Or did one rock form first, and then the other rock form from the materials of the first rock? To solve the mystery, students learn about how rock forms and transforms, driven by different energy sources.

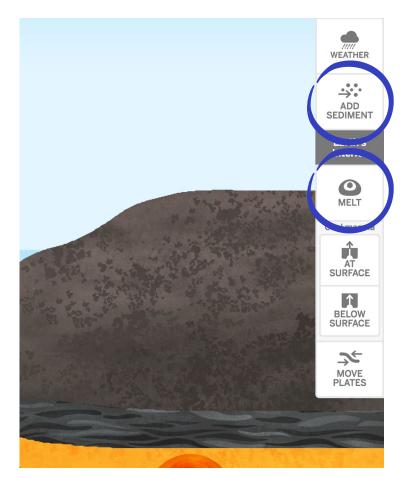




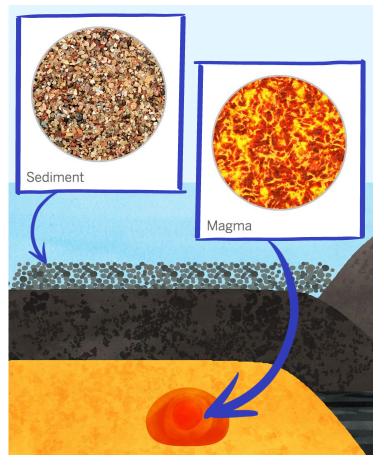


# Activity 3 Considering How Rocks Form

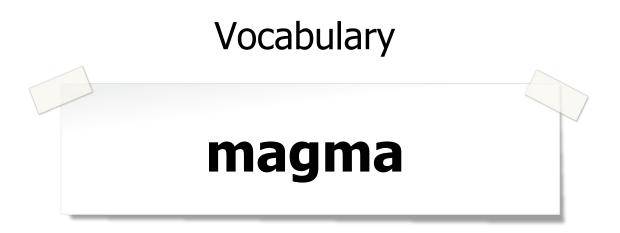




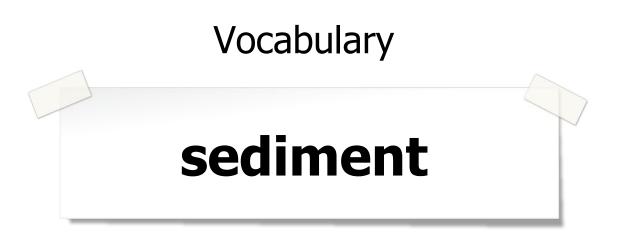
# In the Sim, two of the processes you used to form rocks were **ADD SEDIMENT** and **MELT** (in order to cool magma).



# What did you learn about magma and sediment in the Sim?



#### hot liquid rock below the surface of Earth



small pieces of rock

## Next, you'll answer some questions to **reflect on what you have learned** in this lesson.

# Your reflections should always show your best, independent thinking.





#### Considering How Rocks Form

Reflecting on How Rocks Form

Think about what you saw in the *Rock Transformations* Simulation. Then, answer the questions below.

What happened to the sediment?

It turned into rock inside other rock.

It turned into a layer of rock.





# Today, we investigated this question using the Sim:

**Investigation Question:** How do rocks form? Rock Transformations: Lesson 1.3

# Activity 4 Family Homework Experience





## For this activity, you will explore **rocks you find around your home** with a family member.





#### Family Homework Experience (Optional)

#### Family Homework Experience: Exploring Rocks at Home

Work with a member of your household to examine rocks that you find near your house or elsewhere. Find two rocks that look different from each other. Discuss each rock with your family member and work together to describe what it looks and feels like. Then, think about how each rock you chose might have been formed. Explain to the member of your household how you think it might have been formed and describe what evidence you are using to decide how each rock might have been formed. Use the chart below to put down a few notes about your conversation.

- You may work with more than one member of your household.
- You might need to explain a little about how rocks are formed in order for the member of your household to be able to work with you.

Rock Transformations: Lesson 1.3

# End of Lesson





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## Reflect & discuss

How does this model activity demonstrate & offer opportunities to

- Utilize digital resources to enhance instruction?
- Administer assessments embedded within instruction?
- Utilize data gathered from formative assessments to guide instruction?
- Adjust instruction to respond to the unique cultural & linguistic needs, strengths, and backgrounds of students?

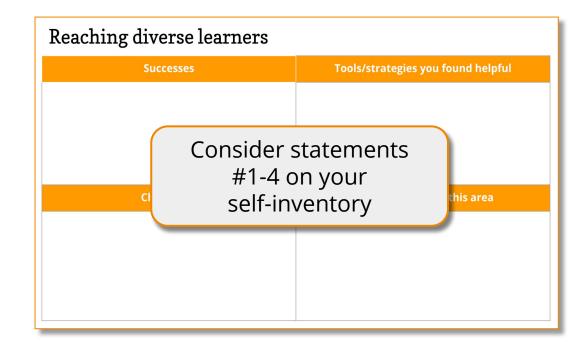




#### Collaborative reflection: reaching diverse learners

On the slides, enter:

- Successes
- Tools & strategies you found helpful
- Challenges
- Your next steps in this area







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  - Culturally Linguistically Responsive Teaching

#### • Science & Literacy

- Accessing Complex Texts
- Supporting Academic Discourse
- Writing In Science
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## **Science & Literacy**

Guiding Principles for Disciplinary Literacy in Amplify Science

- Students can acquire literacy expertise through the pursuit of science knowledge and by engaging in scientific and engineering practices.
- 2. Attention to disciplinary literacy instruction should begin as soon as students enter school and should continue throughout the grades.
- 3. Participation in a community is key to acquiring disciplinary expertise and literacy.
- Argumentation and explanation are the central enterprises of science and, thus, these practices are the focus of reading, writing, and speaking in science.



## Accessing complex texts



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## A typical Active Reading sequence

First Read

Second Read

Third Read

Independent, followed by paired and whole class discussion

Reading for a teacher-directed purpose, followed by a paired, complementary activity Diving into the text for other, content-related purposes

Students read each article twice The first read is always to annotate (questions, connections, comments, etc.

Science and Engineering Practices

8. Obtaining, Evaluating, and Communicating Information

# Subsequent reads are for a particular purpose

- To examine a specific visual representation
- To answer a question
- To find evidence to support a claim, or
- To draw conclusions across texts, etc.

Active Reading

PRACTICES

CROSSCUTTI

Support for reading complex text During various reading experiences

- Variety of reading experiences:
  - Short articles, homework, evidence cards, student notebook / digital platform
- Students are expected to continue using the basic components of Active Reading during these alternate reading experiences;
  - encouraged to annotate and are
  - often provided with guiding questions



### Supporting academic discourse



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## Speaking and Listening in Amplify Science

Amplify provides many authentic opportunities, both informal & formal/structured, for speaking and listening as students refine their thinking and communicate their ideas to various audiences. Throughout the Amplify curriculum, students use discussion to construct explanations and join in oral argumentation.

60

# Speaking and Listening in Amplify

- There are many informal opportunities for students to engage with one another as almost every activity in Amplify is meant to be conducted with a partner or small group.
- The primary formal opportunity for student discourse is the Science Seminar for student discourse. Two others are:





## Goals for the Science Seminar Sequence

- Apply content knowledge (DCI's and CCC's) gained throughout the unit to address a new scientific problem
- Highlight practices: making arguments from evidence, constructing explanations, analyzing data, communicating information
- Three-dimensional assessment opportunity
- Engagement: student-centered, open-ended, novel context
- Nature of science: questions with no clear answer



## Science Seminar: Remote/Hybrid



**Considering claims and evidence** 



Participating in the Science Seminar



Writing an argument









# Science Seminar sequence:

Evaluating evidence focus vs. reasoning focus

	Evidence-focused units	Students spend two full days
Day 1: Consider claims and evidence	Day 2: Analyze evidence	analyzing evidence. They use the evidence gradient in conjunction with the evidence criterion for the
		unit.

Reasoning-focused units					
Day 1: Consider claims and evidence		Day 2: Science Seminar	Day 3: Construct written arguments		
	Students spend just one day analyzing evidence. This leaves a full day to write arguments during class. Students use the reasoning tool to plan their arguments.				

## What is academic discourse?

#### Academic language

• Identify...

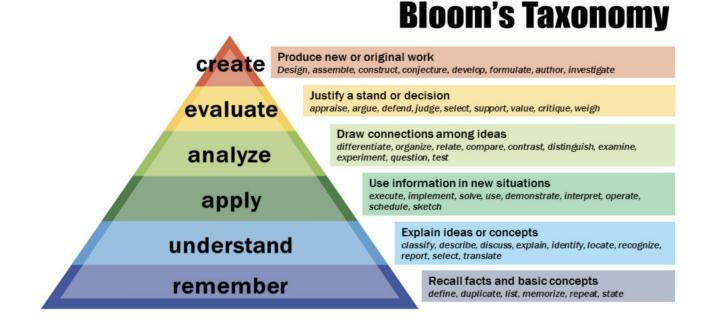
- What is...?
- List...
- Students use tier 1 and 2 vocabulary

Academic discourse

- Prove/disprove with evidence...
- What would happen if....how do you know?
- Explain how this connects to...
- Students use tier 2 & 3 vocabulary

How can strategic teacher questions throughout the lesson promote a higher level of student academic discourse?

**Questioning Strategies -** In order to engage all learners in the classroom, ensuring everyone has the opportunity to participate in discussions and do the important thinking when a question is posed, teachers use a variety of questioning strategies along Bloom's Taxonomy. Questions are pre-planned prior to the lesson and specifically aligned to the learning objectives and differentiated student needs.



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# Bloom's Taxonomy

<b>1</b> Knowledge	define fill in the blank list identify	label locate match memorize	name recall spell	state tell underline		
Identification and recall of information	what	; ; ;	How Describe What is	; ;		
2 Comprehension	convert describe explain	interpret paraphrase put in order	restate retell in your own wo rewrite			
Organization and selection of facts and ideas	Re-tell in your own words. What is the main idea of?			What differences exist between? Can you write a brief outline?		
3 Application	apply compute conclude construct	demonstrate determine draw find out	give an example illustrate make operate	show solve state a rule or principle use		
Use of facts, rules, and principles	How is an example of? How is related to? Why is significant?		Do you know of anot Could this have happ	Do you know of another instance where? Could this have happened in?		

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#### From https://www.teachthought.com/learning-models/25-question-stems-framed-around-blooms-taxonomy

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# Bloom's Taxonomy

			and MARSHOW AND AND ADDRESS OF		
<b>4</b> Analysis	analyze categorize classify compare	contrast debate deduct determine the factors	diagram differentiate dissect distinguish	examine infer specify	
Separating a whole into component parts	What are the parts or features of? Classify according to Outline/diagram/web/map		How does compare/contrast with? What evidence can you present for?		
5 Synthesis	change combine compose construct create design	find an unusual way formulate generate invent originate plan	predict pretend produce rearrange reconstruct reorganize	revise suggest suppose visualize write	
Combining ideas to form a new whole       What would you predict/infer from? What ideas can you add to? How would you create/design a new?		u add to ?	What solutions would you suggest for? What might happen if you combined with?		
6 Evaluation	appraise choose compare conclude	decide defend evaluate give your opinion	judge justify prioritize rank	rate select support value	
Developing opinions, judgements, or decisions		about?	Prioritize according to? How would you decide about? What criteria would you use to assess?		

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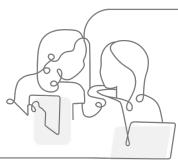
From https://www.teachthought.com/learning-models/25-question-stems-framed-around-blooms-taxonomy/

#### To make connections within a unit of study, ask students to:

- **Remember:** What are we figuring out in this unit? What do you already know?
- **Understand:** Describe how this lesson activity is connected to the unit/chapter/investigation question?
- **Apply:** Use the unit vocabulary to enhance your scientific explanation.
- **Analyze:** What information can you use from the Simulation to support your explanation or argument? Describe how the ideas / concepts fit together?
- **Evaluate:** Defend your claim with at least two sources of evidence. Critique the argument of a peer and provide feedback on their supporting evidence.
- **Create:** Design a model to support the solution.

## **Questioning in Amplify Science**

- clarify understanding
- justify claims
- verify evidence
- accessing prior knowledge
- uncovering misconceptions



## **Questioning Strategies**

#### **Open-Ended Questions to Facilitate Student Thinking & Discourse**

- Questions to assess students' knowledge and skills
- Questions to promote student-to-student discourse
- Questions to guide student learning

#### Questioning Strategies for Grades 6–8

#### Overview of the Role of Open-Ended Questioning

Repeated opportunities for students to listen to and speak with others are essential for promoting deep training and learning in science. Meaningful teacher-initiated questions reads a rick context for promoting open-anded student dialogue and discussion. The Science Framework for California Public Schools explains that "Simply providing opportunities to fails in oft enough. Effective questioning can scatted student thinking" (California Science Framework, 2016, Chapter 11, p. 21). The Framework suggests that "faceher-initiated questions are key to helping students expand their communication, reasoning, arguments, and representation of ideas in science (California Science Framework, 2016, Chapter 11, p. 21). The type of questions that teachers pose are instrumental in supporting student understanding. The Framework calls for more openended teacher questioning that "grompts and facilitates students" discusse and thinking and less teacher questioning that prompts and scientizes students valuents and thinking and less teacher questioning that prompts and scientizes students?

The Amplify Science Teacher's Guide is inflused with opportunities for students to developing ideas in reopones to open-inded prompts. Questions to promote student thinking and discuss their developing purposeduly built into the Teacher's Guide instructional stops and Teacher's Support notes that surround all our hands-on and reading schutels. In addition, all units include discourss routines (e.g., Stranet Lietering, Thinking Draw-Pair-Share, Write and Share, Word Relationships) that provide opportunities for students to use focal unit occabulary as they think and talk with partners and the class about their understanding of key science content and practices. Many of the On-the-Fify Assessment suggestions provided throughout each unit offer open-inded follow-up questions that can be used to probe student thinking and Tomatively assess student understanding of the content. In addition, adv unit includes imultiple opportunities for students to respond to open-ended questions through addition all modalities (e.g., in writing, with diagrams, through a kinesthetic model).

While the prompts embedded in each of the operaturities mentioned above provides forelia ground for student discussion, continued use of floatiky open-inded quarkings in simulatible for assessing students<sup>1</sup> showledge and skills, promoting student-to-student discussions, and guiding student learning. A celloction of gradeappropriate quarking students be used for these purposes. You will also that a list of a kirls of activity types included within the Ampirit Science curricum that are particularly conducive to the use of these quastrons. You may choose to privat duties equivalents and activity types for reference throughout you instruction.

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**Pages 2-4** 

during





#### Department of Education Chancellor Richard A. Carranza

#### The Hallmarks of Advanced Literacy: A Common Set of Instructional Practices





## Hallmark 2 of Advanced Literacies Instruction: Classroom Discussion

...fostering engagement by focusing on building student autonomy and collaboration produces greater gains in achievement and we know that talk-based learning tasks and projects can do exactly this—when there is choice, roles, and collaboration involved, they are a great way to promote students' sense of autonomy as learners.

#### Nonie K. Lesaux, PhD & Emily Phillips Galloway, EdD



## Writing in Science

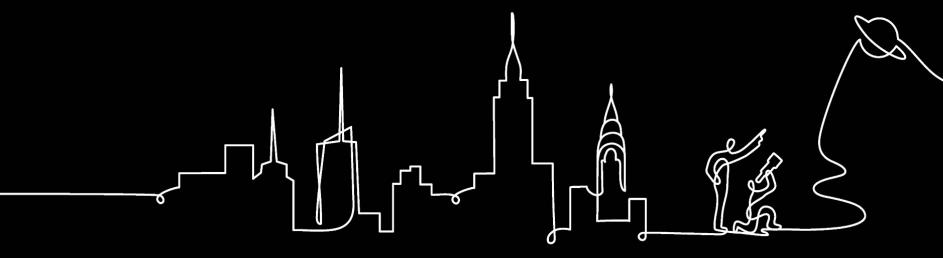


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# Writing in Amplify Science

Purposeful, communicative writing is an integral part of the Amplify Science curriculum. Students write daily for many different purposes.



# Why do students write in Amplify Science?

- To activate background knowledge
- To reflect on understanding
- To communicate
  - $\circ$  To explain
  - To persuade
- To record data / observations
- To have a record of your own thinking



"Small writes" prompt students to synthesize new understandings with existing conceptual knowledge.

Examples: daily warm-ups & evidence card annotations





As they gather evidence, students engage in writing and discussion. They make sense of evidence they gather through these through small writes.

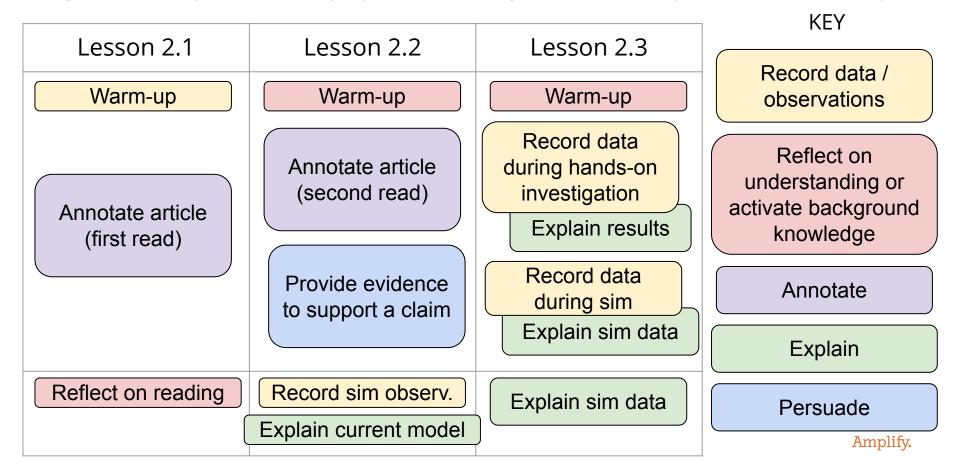
Writing is a **key part of the multimodal approach** as students figure out a phenomenon.







Writing across a chapter: different purposes for writing in *Oceans, Atmosphere and Climate* Chapter 2



# The "big write" : Science Seminar final written argument

Students' argumentation writing is scaffolded in many significant ways. For example, for units where Reasoning is a focus, the Reasoning Tool was conceived of as a scaffold for supporting students in thinking about and identifying the reasoning that would be needed to make a convincing argument.



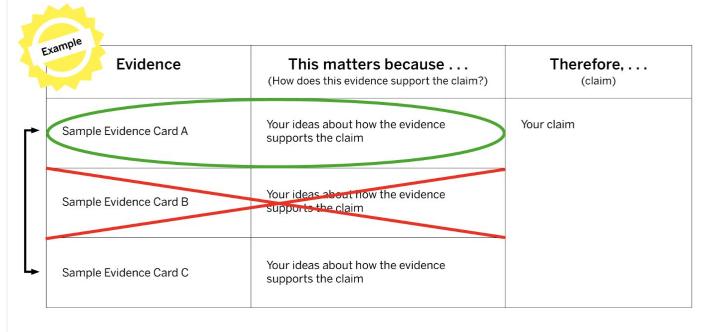
# **Reasoning Tool**

Evidence	This matters because (How does this evidence support the claim?)	Therefore, (claim)
Evidence card D Evidence Card D: Polar ce Is definitions              Is definitis definitis definiti	The current that flowed from the South pole past South China would have gotten really cold. It would have been colder than the air and the air would have transferred a lot of energy and cooled down	South China was cooler than it is today.



#### Using the Reasoning Tool to Support Your Claim

- Circle your strongest piece of evidence.
- Draw an X over those pieces of evidence that you do not plan to use in your argument.
- Draw an arrow to connect pieces of evidence that go together.



# Scientific Argument Sentence Starters An additional scaffold

Describing evidence:

The evidence that supports my claim is... My first piece of evidence is...

Another piece of evidence shows that...

**Describing how evidence** supports a claim: If , then... This change caused... The effect of this change was... This is important because... Since... Based on the evidence, I conclude that... This claim is stronger because...

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Using the Reasoning Tool to Write an Argument

### State your claim.

I support Claim \_\_\_\_, which states that South China during the late Carboniferous was . . .

# **Describe the evidence.** In the late Carboniferous, South China . . . (Evidence Card \_\_\_\_). Another evidence card shows . . .

**Explain how the evidence supports the claim.** Together, this evidence shows . . . Some of the most challenging aspects of scientific argumentation are providing **sufficient high quality evidence** and using **reasoning** to make clear the connections between pieces of evidence and the claim.

The science seminar sequence provides **scaffolds** for these challenges.

# Rubrics for Assessing Students' Final Written Arguments Three-dimensional

- Rubric 1: Assessing Students' Understanding of Science Concepts (DCIs)
- Rubric 2: Assessing Students' Understanding of the Crosscutting Concept of Cause and Effect
- Rubric 3: Assessing Students' Performance of the Practice of Constructing Scientific Arguments
   formative

summative

Amplity

# Rubric 3: Assessing Students' Performance of the Practice of Constructing Scientific Arguments

- Formative rubric
- Provides suggestions for feedback
- Possible responses supporting each claim

# Criteria for a strong written argument

Takes a stance

Explanatory

Justified by the reasoned use of evidence

**Employs high-quality information** 

Clear and well-organized



The Rubrics for Assessing Students' Final Written Arguments provide guidance you can use as you review and provide feedback on students' writing **throughout the unit**.







# Model activity

As you observe activity, focus on your successes, challenges, & next steps from this area of self-inventory



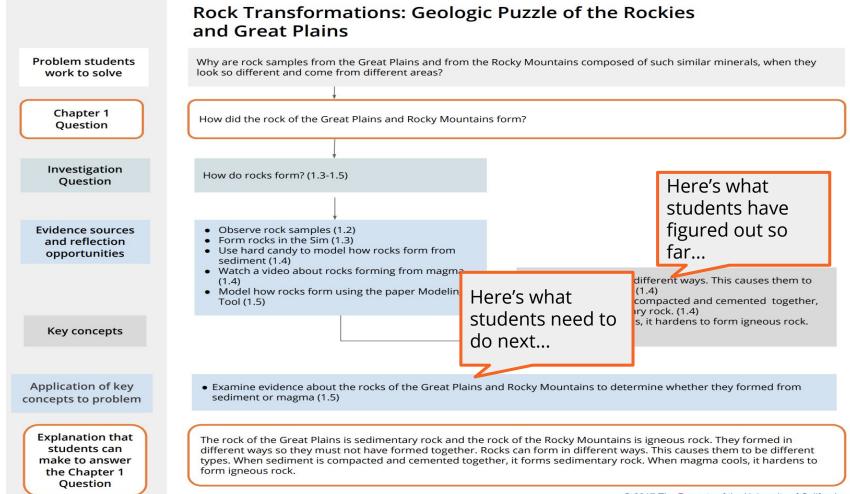
#### Self-inventory: choosing an area of focus for planning

Directions: Use the statements to help guide your areas of strength & support for guided planning.

Statements	I don't	I try	I do
<ol> <li>I can utilize <b>digital resources</b> to enhance instruction.</li> </ol>			
2. I can administer <b>assessments embedded</b> within instruction.			
<ol> <li>I can utilize data gathered from formative assessments to guide my instruction.</li> </ol>			
<ol> <li>I can adjust my instruction to respond to the unique cultural &amp; linguistic needs, strengths, and backgrounds of my students.</li> </ol>			
<ol> <li>I can support my students in deconstructing complex scientific texts in order to bolster scientific understanding</li> </ol>			
<ol> <li>I can implement discourse routines in order to support students developing scientific understanding.</li> </ol>			
<ol> <li>I can adjust questioning strategies to support students' scientific inquiry.</li> </ol>			
<ol> <li>I can scaffold students writing of scientific arguments &amp; explanations.</li> </ol>			







Activity 3 Evaluating Rock Observations



### **Chapter 1 Question**

# How did the rock of the Great Plains and Rocky Mountains form?



#### **Evaluating Rock Observations**

To: Student Geologists From: Dr. Jackie Lewis, Professor of Geology Subject: Observations of Great Plains and Rocky Mountains



We are continuing our investigation of how the rock formations in the Great Plains and Rocky Mountains formed.

I'm sending you some observations of both regions. These were collected by student geologists in the field. They made observations of both the rock samples and the landscape.

I'd like you to sort through these observations and decide which are worth keeping and which are not detailed enough (and, therefore, do not provide strong enough evidence). We look forward to your response!





# These **evidence cards** show observations that were made by student geologists in the field.

Dr. Lewis has asked us to look them over.



Dr. Lewis wants us to determine which observations provide strong evidence.

# Why is it important to use the **best evidence** possible?

#### **Evidence** Criterion

More detailed observations provide stronger evidence.

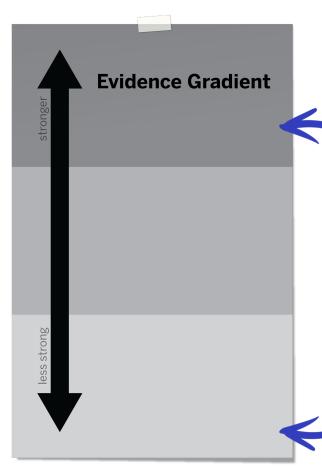
# We are focusing on this **Evidence Criterion.**

However, in this class and beyond there are other factors to consider when evaluating evidence.

### Geologist's Detailed Observation Guidelines

- 1. Observe the **number and colors of grains** in the rock.
- 2. Observe the **sizes and shapes** of grains.
- 3. Observe whether the grains look **stuck together** or fitted together like puzzle pieces.
- 4. Observe the rock's **texture**, including how hard it is.
- 5. Notice whether there are **unusual features** in the rock, such as bubbles or fossils.





## The **Evidence Gradient** is a tool for evaluating evidence.

## The **most detailed**

observations go on top. Observations that are **less detailed** go lower.



# You'll work with a partner to discuss the cards and decide where to **place** each card on the gradient, depending on how strong and detailed the observation on that card is.

#### $\bullet \bullet \bullet$

#### Evaluating Rock Observations

Evaluating Observations of the Great Plains and Rocky Mountains

Student geologists in the field made observations about the landscapes and rock samples from the two study regions.

Evidence Criterion: More detailed observations provide stronger evidence.

Instructions

1. With a partner, look at the image and read the observations written down on the Great Plains and Rocky Mountain Evidence Cards given to you by your teacher. Annotate the cards with any questions or ideas you have.

2. Discuss the cards with your partner and evaluate each observation using the Evidence Criterion included above.

3. Once you have evaluated each observation, place the cards on the Evidence Gradient sheet with the strongest pieces of evidence near the top and the less strong pieces of evidence near the bottom.

4. When you are finished, prepare to share with other students.

#### **Geologist's Detailed Observation Guidelines**

- 1. Observe the number and colors of grains in the rock.
- 2. Observe the sizes and shapes of grains.
- 3. Observe whether the grains look stuck together or fitted together like puzzle pieces.
- 4. Observe the rock's texture, including how hard it is.
- 5. Notice whether there are unusual features in the rock, such as bubbles or fossils.

## These **guidelines** can help you decide if an observation is detailed.

There is no right answer, so you may disagree. Try to come to an agreement before placing each card.





**Read and Annotate** 

# Look at the image and read the observations

written on each card.

Annotate the cards with any questions or ideas you have.



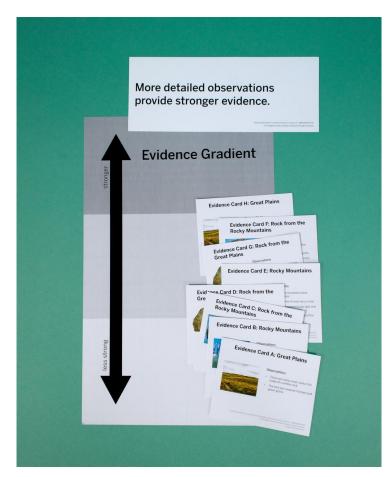
#### Discuss

**Discuss the cards** with your partner, and evaluate each observation using the Evidence Criterion.

1	
	Et l

**Place Cards** 

Place each card on the Evidence Gradient with the strongest pieces of evidence near the top and the less strong pieces of evidence near the bottom.





Which evidence cards were the **easiest** to place on the gradient?

Which ones were the **most difficult?** 



Now let's come to an agreement as a class.

# Which evidence cards do you think will be **most** useful?

# Activity 4 Discussing How the Rocks Formed



Next, you and your partner will use **evidence** to determine how the Great Plains and Rocky Mountains formed.

#### **Rock Characteristics Chart**

Sedimentary	Igneous
<ul> <li>Observations:</li> <li>Can have many different colors</li> <li>Grains are rounded and can be different sizes: tiny like sand or big like pebbles</li> <li>Can be crumbly</li> <li>Can appear layered</li> <li>Can have fossils</li> <li>How the rock was made:</li> <li>Made when sediment was compacted and cemented</li> </ul>	<ul> <li>Observations:</li> <li>Can have many different colors</li> <li>Grains have sharp edges that fit together like puzzle pieces</li> <li>Can be very hard</li> <li>Can have bubbles</li> <li>How the rock was made:</li> <li>Made when magma cooled</li> </ul>

You'll compare the evidence cards to the characteristics of sedimentary and igneous rocks to determine what types of rocks are found in the two locations.





#### Discussing How the Rocks Formed

#### Thinking Back to the Rockies and Plains

Answer the questions below with your partner. Use the observations you determined were most detailed from the evidence cards and the Rock Characteristics chart to help you.

# **Rock Characteristics Chart**

Sedimentary	Igneous

How did the rock of the Great Plains and Rocky Mountains form?

**Claim 1:** They formed as one rock formation, and then something separated them.

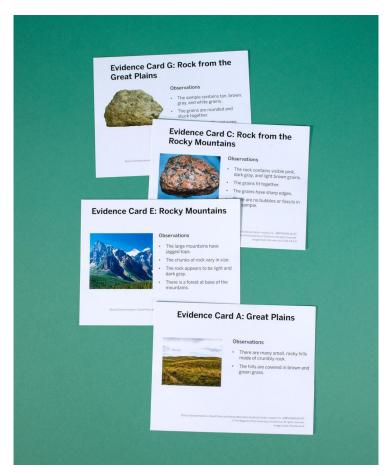
**Claim 2:** One rock formation formed before the other. Then, the minerals from the older rock became part of the younger rock.



Based on what we've figured out, let's discuss our claims and see if we can eliminate one. Rock Transformations: Lesson 1.5

# Activity 5 Homework





For this activity, you will use our evidence to write an explanation of how the rock in the Great Plains and Rocky Mountains formed and why Claim 1 can be eliminated.

#### $\bullet \bullet \bullet$



## Homework

Revisiting the Claims

Use the evidence cards to answer the questions below.

## **Evidence Card A: Great Plains**



## **Observations**

- There are many small, rocky hills made of crumbly rock.
- The hills are covered in brown and green grass.



**Evidence Card E: Rocky Mountains** 

## **Observations**

- The large mountains have jagged tops.
- The chunks of rock vary in size.
- The rock appears to be light and dark gray.
- There is a forest at base of the mountains.



# Reflect & discuss

How does this model activity demonstrate & offer opportunities to

- Support students in deconstructing complex scientific texts in order to bolster scientific understanding?
- Implement discourse routines in order to support students developing scientific understanding?
- Adjust questioning strategies to support students' scientific inquiry?
- Scaffold students' writing of scientific arguments
   & explanations?





## Collaborative reflection: science & literacy

On the slides, enter:

- Successes
- Tools & strategies you found helpful
- Challenges
- Your next steps in this area





# BREAK (15 minutes)





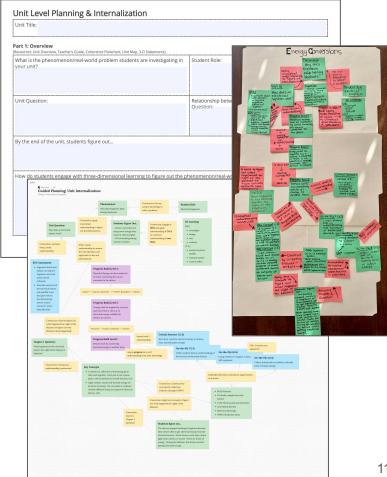


# Plan for the day

- Framing the day
  - Welcome and introductions
  - Anticipatory activity
- Targeted Implementation Reflection
  - Digitally-enhanced learning
    - Remote/Hybrid Resources Utilization
  - Reaching diverse learners
    - Utilizing Embedded Assessments
    - Culturally Linguistically Responsive Teaching
  - Science & Literacy
    - Accessing Complex Texts
    - Supporting Academic Discourse
    - Writing In Science
- Guided Planning
  - Unit internalization protocol
  - Chapter & Lesson-level internalization
    - Planning & pacing
- Closing
  - Reflection & additional resources
  - Survey

# **Guided Planning materials**

- Internalization guide (interactive pdf)
- Unit Internalization visual
  - Digital visual 0
    - Navigate to Jamboard to create • a digital visual
  - Physical visual 0
    - Gather paper, tape, post-its . (different colors if possible)



Unit Level Plannir			Page
Part 1: Overview			
[Resources: Unit Overview, Teacher's G	eal-world problem students are investigating in	1	

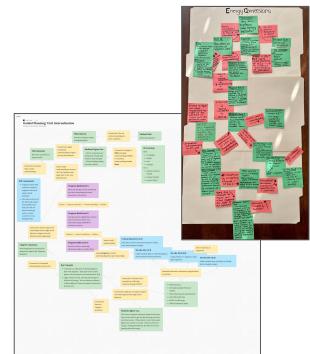
## Suggested resources:

- Unit Guide resources → **Unit Overview** → "What's in this unit?"
- Navigate to the **lesson where the phenomenon is introduced** to view how it is introduced.
  - K-5: Phenomenon is usually introduced in Lesson 1.1 or Lesson 1.2
  - 6-8: Phenomenon is usually introduced in Lesson 1.2 in Core units.
- Unit Guide resources → Printable Resources → **Coherence Flowcharts** 
  - View how the "problem students work to solve" is summarized.

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Creating your visual! How is the unit designed to support students to figuring out the unit phenomenon?

- Add to your visual:
  - 1. Phenomenon or problem students are working to solve
  - 2. Student role



Unit Title:	
Part 1: Overview Resources: Unit Overview, Teacher's Guide, Coherence Flowchart, Unit Map, 3-D Statements]	
What is the phenomenon/real-world problem students are investigating in your unit?	Student Role:
Unit Question:	Relationship between the Unit Phenomenon and Unit Question:

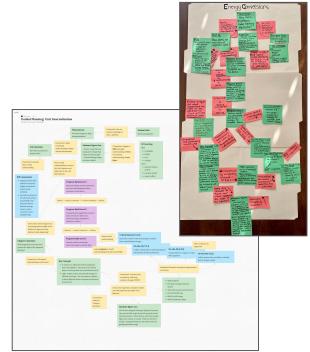
## Suggested resources:

- Unit Guide resources → Lesson Overview Compilation
- Unit Guide resources  $\rightarrow$  Printable Resources  $\rightarrow$  Print Materials (11x17)

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Creating your visual! How is the unit designed to support students to figuring out the unit phenomenon?

- Add to your visual:
  - 1. Unit Question
  - 2. Relationship between the Unit Phenomenon and the Unit Question



Unit Title:	
Part 1: Overview Resources: Unit Overview, Teacher's Guide, Coherence Flowchart, Unit Map, 3-D Statements]	
What is the phenomenon/real-world problem students are investigating in your unit?	Student Role:
Unit Question:	Relationship between the Unit Phenomenon and Unit Question:
By the end of the unit, students figure out	1
How do students engage with three-dimensional learning to figure out the p	henomenon/real-world problem in your unit?

#### **Amplify**Science > Energy Conversions

	Planning for the Unit		Printable
	Unit Overview	~	Cohere
	Unit Map	~	Сорут
	Progress Build	~	E.
	Getting Ready to Teach	~	
	Materials and Preparation	~	
	Science Background	~	1
	Standards at a Glance	~	
	Teacher References		
	Lesson Overview Compilation	~	
	Standards and Goals	~	
	3-D Statements	~	
	Assessment System	~	
	Embedded Formative Assessments	~	
	Books in This Unit	~	
	Apps in This Unit	~	
1	Flextensions in This Unit	~	

#### Printable Resources

Coherence Flowcharts

## **10-word summary**

 In 10 words or less, what do students figure out at the end of the unit?

Unit Title:	
a <b>rt 1: Overview</b> tesources: Unit Overview, Teacher's Guide, Coherence Flowchart, Unit Map, 3-D Statements]	
What is the phenomenon/real-world problem students are investigating in your unit?	Student Role:
Unit Question:	Relationship between the Unit Phenomenon and Unit Question:
By the end of the unit, students figure out	
How do students engage with three-dimensional learning to figure out the p	henomenon/real-world problem in your unit?
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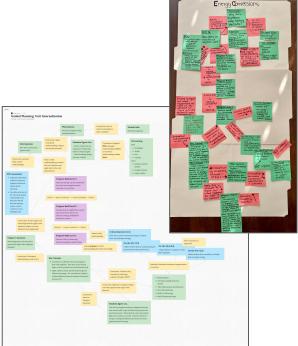
Planning for the Unit		Printable Resources
Unit Overview	~	Coherence Flowcharts
Unit Map	~	Copymaster Compilation
Progress Build	~	Flextension Compilation
Getting Ready to Teach	~	Investigation Notebook
Materials and Preparation	~	Multi-Language Glossary
Science Background	~	NGSS Information for Parents and Guardians
Standards at a Glance	~	Print Materials (8.5" x 11")
Teacher References		Print Materials (11" x 17")
Lesson Overview Compilation	~	
Standards and Goals	~	Offline Preparation
3-D Statements	~	Teaching without reliable classroom internet? Prepare unit and lesson materials for offline access.
Assessment System	~	
Embedded Formative Assessments	~	Offline Guide
Books in This Unit	~	
Apps in This Unit	~	
Flextensions in This Unit	~	

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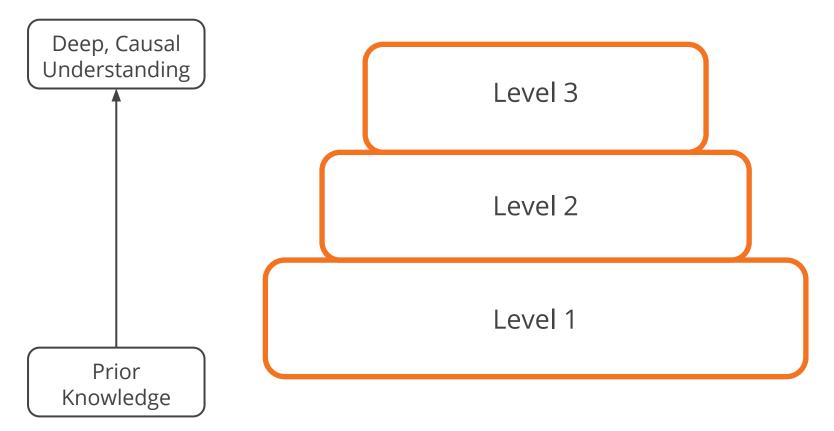
# Creating your visual!

# How is the unit designed to support students to figuring out the unit phenomenon?

- Add to your visual:
  - 1. 10-word summary of what students figure out at the end of the unit
  - 2. How students engage in 3-D learning to figure out the phenomenon
  - 3. Add connections that explain the relationship between what students figure out and:
    - 3-D learning
    - The Unit Question
    - Anchor phenomenon



# Progress Build: A unit-specific learning progression



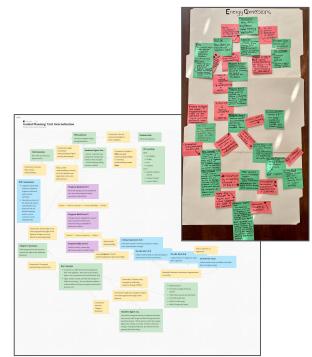


#### ■ AmplifyScience > Energy Conversions

	Planning for the Unit		Printable Resources
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l	Flextensions in This Unit	~	

Creating your visual! How is the unit designed to support students to figuring out the unit phenomenon?

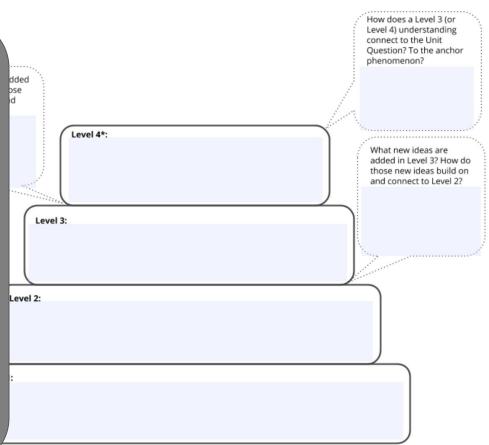
- Add to your visual:
  - 1. Progress Build levels
  - 2. Connections between levels



Part 2: Progress Build Analysis [Resource: Progress Build]

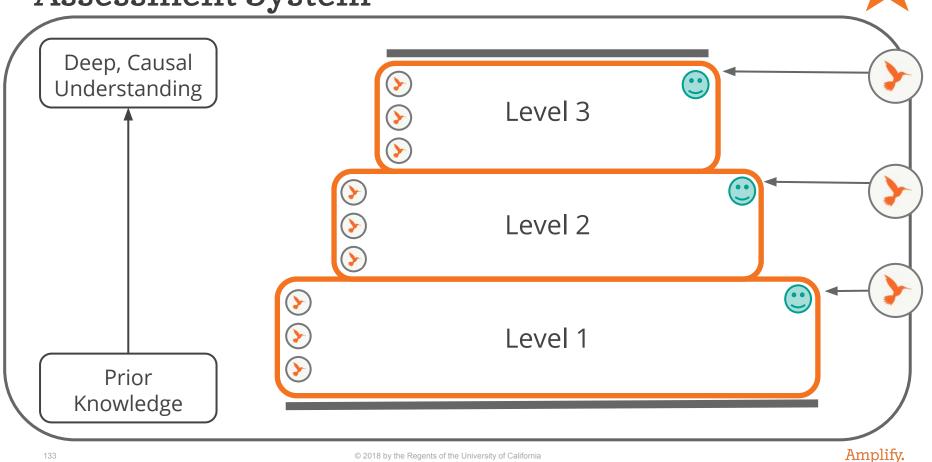
## Think-Type-Share

- Which science ideas introduced in the Progress Build do you feel confident about?
- Which science ideas would you want to do more self-study to build confidence?

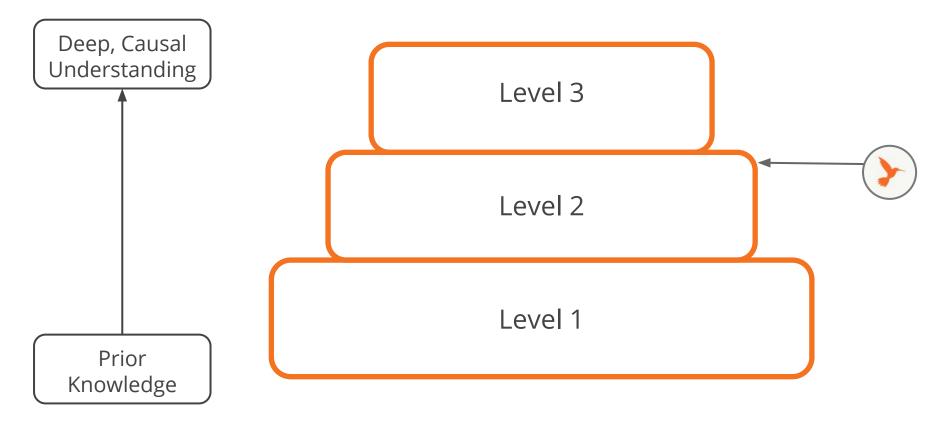


y some Elementary units have a 4th level, check your Progress Build Unit Guide document)

## Assessment System



# 6-8 Critical Juncture Assessment





Critical Juncture Assessment located:	Assessment Focus:
ັake the Critical Juncture Assessment (K-5: Part 1 or /our exemplar response(s) to the written (or oral fo	nly if your assessment has multiple parts; 6-8: Open response questions only). Record r grades K-1) prompt(s) and any notes/annotations below:

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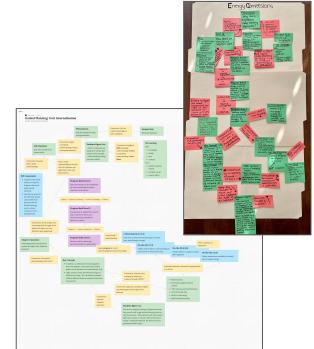
Planning for the Unit		Printable Resources
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Apps in This Unit	~	
Flextensions in This Unit	~	

Español

What is the relationship	between conceptual understandir	ig described in the Progress Bu	uild and the Critical Juncture	e Assessment?
and learning?				

Creating your visual! How is the unit designed to support students to figuring out the unit phenomenon?

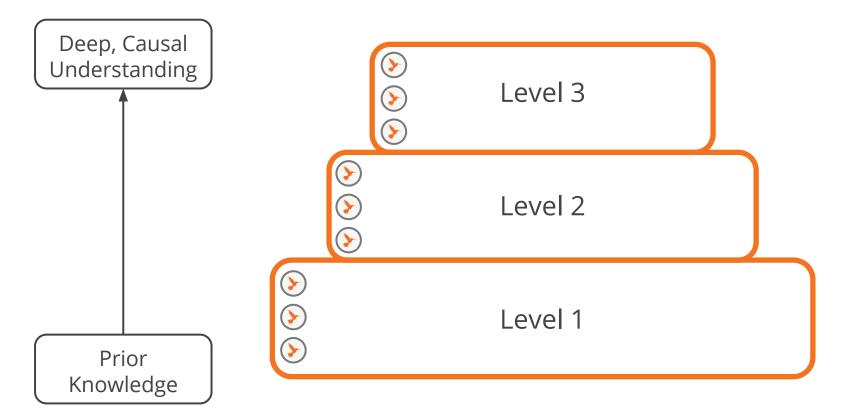
- Add to your visual:
  - Relationship between the conceptual understanding described in the Progress Build and Critical Juncture Assessment



1	What is the relationship between conce	otual understanding described in th	e Progress Build and the	Critical Juncture Assessment?

When during the lessons leading up to the Critical Juncture Assessment are there critical opportunities to collect data on student thinking and learning?

# **On-the-Fly Assessments**





## **Amplify**Science > Energy Conversions

	Planning for the Unit		Printable Resources
	Unit Overview	~	Coherence Flowcharts
	Unit Map	~	Copymaster Compilation
	Progress Build	~	Flextension Compilation
	Getting Ready to Teach	~	Investigation Notebook
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	Embedded Formative Assessments	~	Offline Guide
·	Books in This Unit	~	
	Apps in This Unit	~	
	Flextensions in This Unit	~	

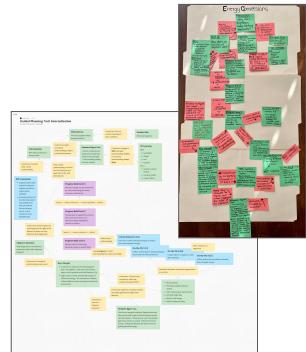
## **Amplify**Science > Energy Conversions

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	Unit Overview	~	Coherence Flowcharts
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	Apps in This Unit	~	
	Flextensions in This Unit	~	

Español

Creating your visual! How is the unit designed to support students to figuring out the unit phenomenon?

- Add to your visual:
  - I. Embedded formative assessment opportunities
  - 2. Add connections from the assessment opportunities back to the Critical Juncture, Progress Build, 3-D learning, and the anchor phenomenon



What is the Chapter Question?	
How does the Chapter Question connect back to the anchor phenomenon?	
What key concepts do students construct in this chapter?	
How are students constructing an understanding of these concepts? *Consider 3D Learning and the Multimodal Approach of Do-Talk-Read-Write-Visualize	
How do the key concepts constructed in Chapter 1 connect to the Progress Build?	
How do students apply the key concepts to the phenomenon/problem to answer the Chapter 1 question? *Use the Coherence Flowchart to find the explanation to the Chapter 1 question.	

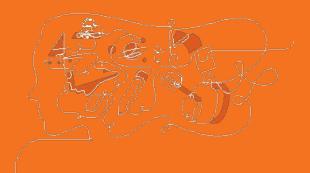
Creating your visual! How is the unit designed to support students to figuring out the unit phenomenon?

- Add to your visual:
  - How is Chapter 1 designed to support students in starting to figure out the phenomenon?





# Share your visual!



# Use your visual & your prior reflections to inform instructional planning!

Choose the option that best supports you in **planning to teach.** Refer back to your **self-inventory** to guide your planning **focus**:

- 1. Complete the Unit Pacing Planning on **pages 11-13.**
- 2. Complete your Chapter 1 lesson plans on **pages 14-17**.
- 3. Use the Unit Level Planning & Internalization Guide to analyze Chapters 2-5 on **pages 18-21**.

### Debrief & reflection

Share one key-takeaway from your breakout room planning work-time.

 Share one **new insight** you've gained from planning with regard to your **target areas** of **strength** and **support** you identified earlier.



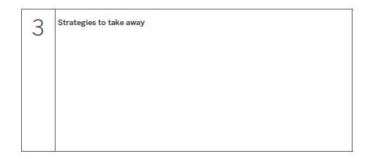




# Plan for the day

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  - Science & Literacy
    - Accessing Complex Texts
    - Supporting Academic Discourse
    - Writing In Science
- Guided Planning
  - Unit internalization protocol
  - Chapter & Lesson-level internalization
    - Planning & pacing
- Closing
  - Reflection & additional resources
  - Survey

3-2-1 Reflection





1 Question I still have



# Revisiting our objectives

Do you feel ready to...

- Reflect on you implementation of Amplify Science in the targeted areas of digitally-enhanced learning, supporting diverse learners, & disciplinary literacy?
- Utilize these reflections to begin targeted planning at the unit & lesson level for the upcoming school year?

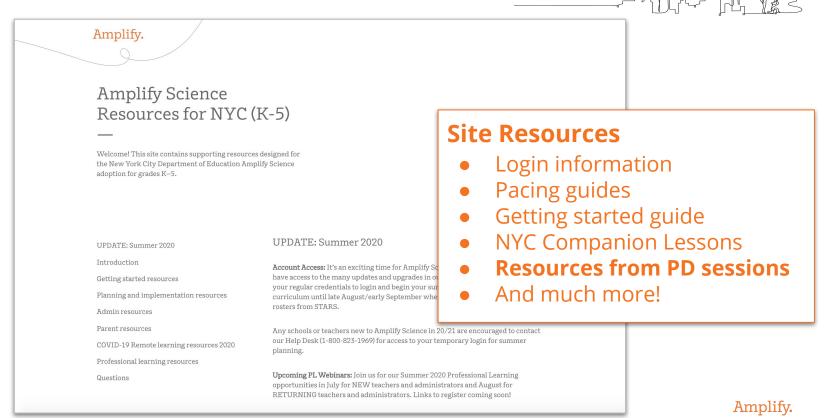
**1-** I'm not sure how I'm going to do this! **3-** I have some good ideas but still have some questions.

**5-** I have a solid plan for how to make this work!



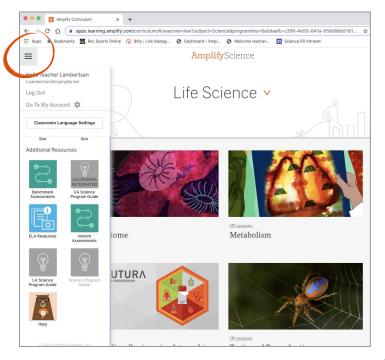
## New York City Resources Site

#### https://amplify.com/amplify-science-nyc-doe-resources/



Amplify Science Program Hub A hub for Amplify Science resources

- Videos and resources to continue getting ready to teach
- Amplify@Home resources
- Keep checking back for updates



## Additional Amplify resources



#### **Program Guide**

Glean additional insight into the program's structure, intent, philosophies, supports, and flexibility.

https://my.amplify.com/programguide/co ntent/national/welcome/science/

#### **Amplify Help**

Find lots of advice and answers from the Amplify team. **my.amplify.com/help** 

# Additional Amplify Support

#### **Customer Care**

Seek information specific to enrollment and rosters, technical support, materials and kits, and teaching support, weekdays 7AM-7PM EST.



scihelp@amplify.com



800-823-1969



# When contacting the customer care team:

- Identify yourself as an Amplify Science user.
- Note the unit you are teaching.
- Note the type of device you are using (Chromebook, iPad, Windows, laptop).
- Note the web browser you are using (Chrome or Safari).
- Include a screenshot of the problem, if possible.
- Copy your district or site IT contact on emails.

# **Final Questions?**

# Please provide us feedback!

## URL: https://www.surveymonkey.com/r/BY56SBR

**Presenter name:** 





#### Amplify.

# Thank you & be well!







