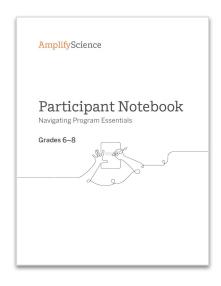
Welcome to Amplify Science!

Do Now: Login and open your digital participant packet

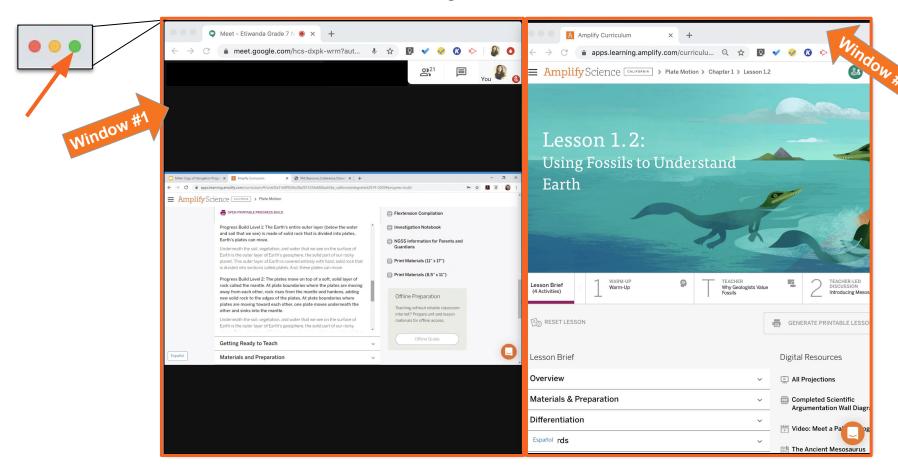




- 1. Go to **learning.amplify.com**
- 2. Select Log in with Amplify
- 3. Enter teacher demo account credentials
 - nycdoe_middle@tryamplify.net
 - Password: AmplifyNumber1
- 4. Explore as we wait to begin



Use two windows for today's webinar



Amplify Science New York City

Introduction to Amplify Science NYC Summer Institute, Day 2

Grade 8: Geology on Mars & Earth, Moon and Sun

New York City Department of Education July 22, 2020

Presented by



Remote Professional Learning Norms



Orient yourself to the platform

• "Where's the chat box? Where's the mute button?"



Mute your microphone unless sharing with the group



Use the chat box for posting questions or responses



Have a note-catcher

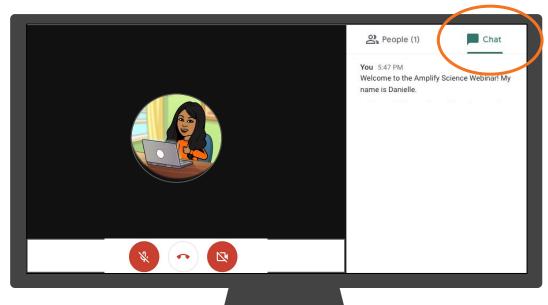


Engage at your comfort level - chat, ask questions, discuss.

Culture Building

Share your answers in the chat.

- Question 1: What did you learn about yesterday that made you excited to teach Amplify Science?
- Question 2: What are you looking forward to learning more about today?



Overarching goals

By the end of this institute, you will be able to:

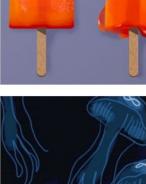
- Navigate the Amplify Science curriculum.
- Understand the program's multimodal approach and instructional materials.
- Apply program essentials to prepare to teach an Amplify Science unit.
- Make an informed decision about which of the Amplify
 Science Hybrid Learning Resources will best support your
 students.

Day 2 Objectives

By the end of the session you will be able to:

- Understand the purpose of Launch Units.
- Apply program essentials to prepare to teach an Amplify Science Launch Unit.
- Make an informed decision about which of the Amplify Science Hybrid Learning Resources will best support your students.











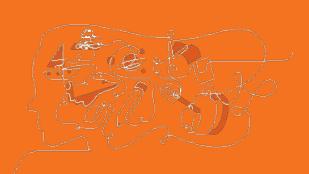




Plan for the day

- Experiencing the Launch Unit
- Launch Unit Components
- Planning to Teach
- Remote/Hybrid Resources
- Closing and reflection

Experiencing the Launch Unit



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



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





What is a launch unit?

- First unit of the year
- Interesting, immersive, and often surprising problem-context
- Introduces practices that are integral to science, such as:
 - Argumentation
 - Reading
 - Writing
 - Talking about science ideas
 - Using models
- Introduces routines such as:
 - Active reading
 - Discourse routines



12



Geology on Mars



Problem: The Universal Space
Agency is investigating Mars for
evidence that it was once habitable.

Role: Student Planetary Geologists

Students use models and analyze data to make an argument about whether water was involved in geologic processes that changed Mars' surface.

Unit Question

How can we search for evidence that other planets were once habitable?

Geology on Mars—Unit Question—Lesson L1—AMP615582 15 GON © The Regents of the University of California. All rights reserved



What's in This Unit?

For thousands of years, people have looked up into the night sky and wondered if we are alone in the universe. As

READ FULL OVERVIEW



Chapter 1: Comparing Earth and Rocky Planets

3 Lessons





Chapter 1 Question

What geologic process could have formed the channel on Mars?

Geologyon Mars – Chapter I Question – Lesson I. 2 – AWP0558236-GOM (6 The Regents of the University of California All rights reserved.



Chapter 1: Comparing Earth and Rocky

To investigate habitability on Mars, students compare Mars and other rochannel shaped by geologic processes on Mars, comparing it to landforr

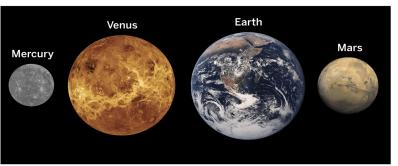
READ FULL OVERVIEW

1.1: Comparing Rocky Planets

2

1.2: Observing the Surfaces of Mars and Earth

The Four Rocky Planets





Classroom Wall

Unit Question

How can we search for evidence that other planets were once habitable?

Chapter 1 Question

What geologic process could have formed the channel on Mars?

Investigation Question

How does our understanding of Earth help us learn about other rocky planets?

Key Concepts

1. Earth, Mars and other rocky planets can be thought of as systems. These systems are made up of interacting spheres than can include the geosphere, atmosphere, hydrosphere, and biosphere.

Vocabulary

habitable

rocky planet

system



Preparing to Teach

Understand
how the
lesson will
flow

Gather your materials

Know the unit's big idea

Prepare your digital device plan



Activity 1 Warm-Up



Each day, we will start with a **Warm-Up** activity to get us thinking about science ideas.



Warm-Up

In a moment, you will watch a video made by other students about the Earth system. A system is a set of interacting parts forming a complex whole.

What systems can you think of? List one or two examples of things that you think might be systems.



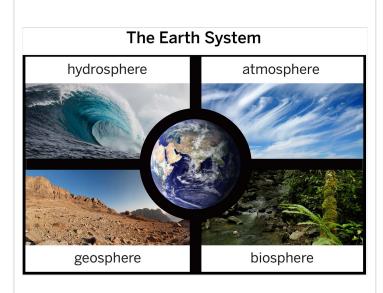
Exploring the Surface of Mars



Next, we'll watch a student-made video that was created for other students.

The video explains the answer to the question "How is Earth a **system**?"

Geology on Mars: Lesson 1.2 **Activity 2**









What ideas and questions do you have about the Earth system?



How can we search for evidence that other planets were once habitable?

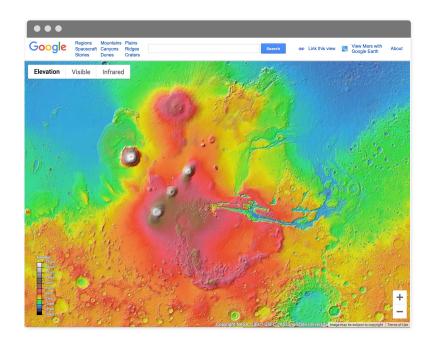
Scientists are investigating whether Mars has ever been habitable by looking for evidence of past liquid water. Mars is currently a dry planet with no large bodies of water. Scientists have found water ice at the poles.

But Mars could have looked different in the past.

On Earth, **flowing water** shapes the land in particular ways. Planetary geologists are looking at **satellite images of Mars** for similar features. This can be used as evidence that liquid water once flowed on Mars.

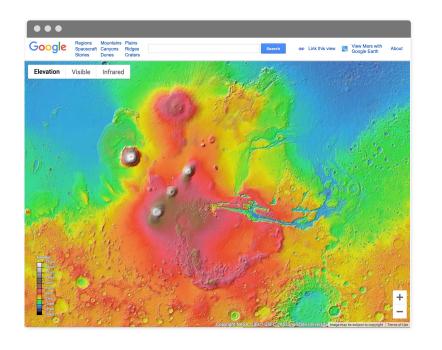
We'll be examining images of Mars to look for evidence of past liquid water.

Geology on Mars: Lesson 1.2



Satellites, landers, and rovers collect information about the surface of Mars. An interactive map called **Google Mars**™ allows us to see the information that's been collected.

Geology on Mars: Lesson 1.2



You'll use the **Elevation**mode in Google Mars™ to
look for landforms such
as mountains, plains,
canyons, ridges, dunes,
and craters.

Landforms are features that form on the surface of a planet.

Remember that just because there are no bodies of liquid water on Mars now does not mean that they didn't exist on Mars in the past.

Scientists look for landforms that might have been formed by flowing water in the past.

But, even when scientists find a landform that looks like it could have been formed by flowing water, it is difficult to be certain.

On Mars, there are many volcanoes that have erupted in the past. Flowing lava can change the shape of the land in ways that are similar to flowing water.

You'll use Google Mars[™] to look for **landforms** that could have been formed by **flowing water** or **flowing lava**.

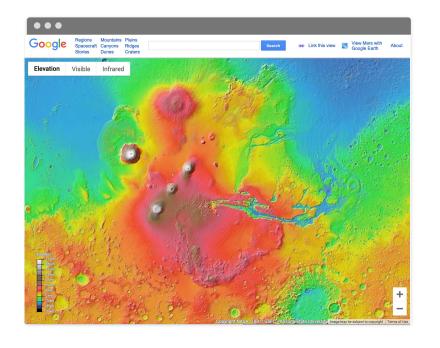




Exploring the Surface of Mars

Exploring Google Mars™

- 1. With your partner, use Google Mars™ to explore landforms that could have been formed by flowing water or flowing lava.
- 2. Share what you find with your partner, using the following sentence starters.
 - I think this landform was formed by . . .
 - I think this because . . .





What kinds of landforms did you find while exploring Google Mars™?

Do you think they were formed by **flowing water** or **flowing lava?**

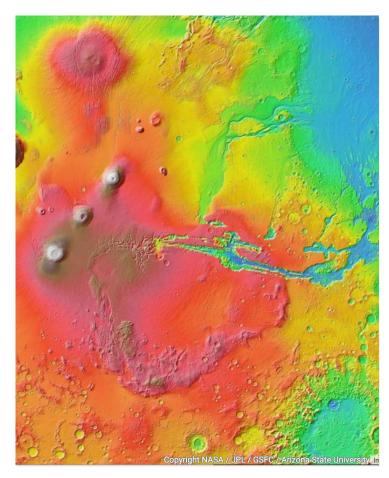


a feature that forms on the surface of a planet, such as a mountain, channel, or sand dune



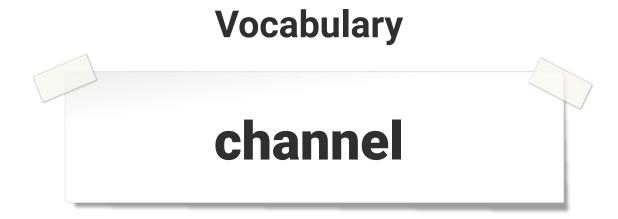
Introducing the Channel on Mars



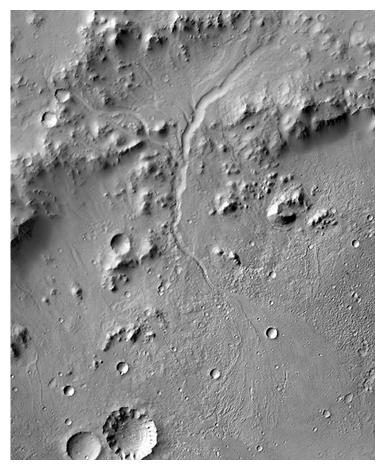


We've been exploring landforms on Mars.

There's a specific landform we'll pay special attention to in this unit: a **channel**.



a long, narrow groove that forms where water, lava, or other liquid flows



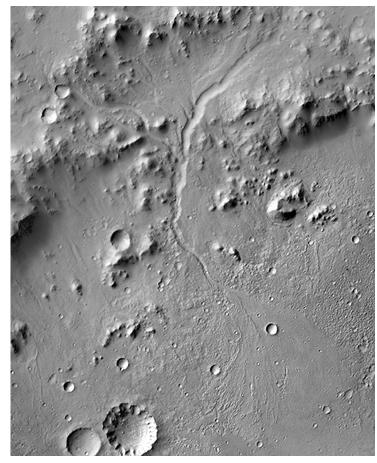
This is a **channel** that geologists found on the surface of Mars.

It could provide evidence that Mars once had flowing water—a key condition for life to exist.

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What geologic process could have formed the channel on Mars?

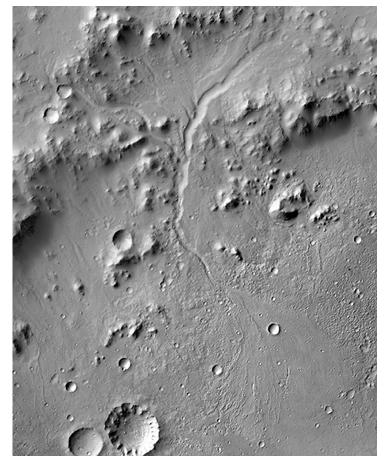








What are your initial observations of the channel on Mars?



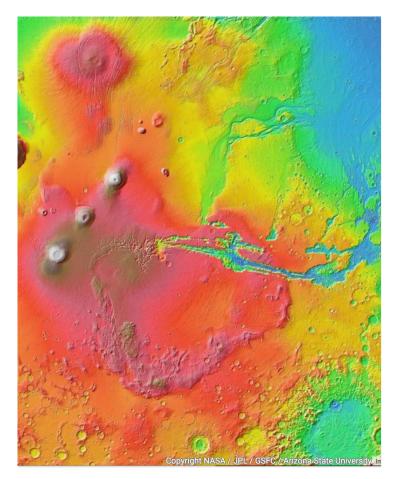
This landform was likely formed by flowing water or flowing lava. To help us figure out which, we'll learn more about what happens when water and lava flow on Earth.

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Observing the Surface of Earth



Geology on Mars: Lesson 1.2



In Google Mars™, we looked for landforms that could have been formed by flowing water or flowing lava. Flowing water and flowing lava are examples of geologic processes.

Vocabulary

geologic process

an event or series of events that causes changes in the geosphere, such as flowing water or flowing lava



Flowing Water
Orange River,
South Africa



Lava flow near Kalapana, Hawaii, United States

Flowing Lava

Now, we'll take a closer look at the types of landforms formed by flowing lava and flowing water on Earth. Here are two images that show flowing water and flowing lava up close.

Geologic Processes on Earth: Landform Formed by Flowing Water



The hydrosphere covers over 70% of Earth's surface and can change the shape of Earth's geosphere in many ways. Flowing water can form many different types of landforms, including river channels.

Okavango River, Botswana, Africa

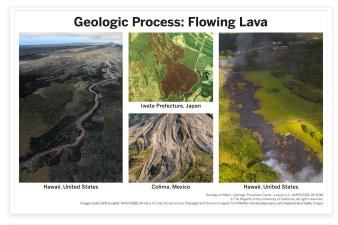
Geologic Processes on Earth: Landform Formed by Flowing Lava

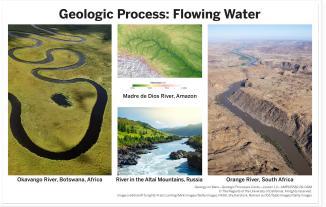


Flowing lava from a volcanic eruption can change the shape of the geosphere by forming many different landforms. This landform was formed by flowing lava and is called a lava channel.

Lava flow, Hawaii, United States

Geology on Mars: Lesson 1.2

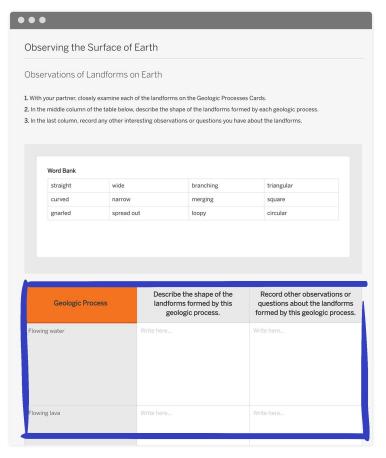




You'll examine images of Earth taken by airplanes.

Scientists use these types of images to study how geologic processes change Earth's geosphere over time.

Geology on Mars: Lesson 1.2



You will record observations about the **shape** of the landforms in this table.

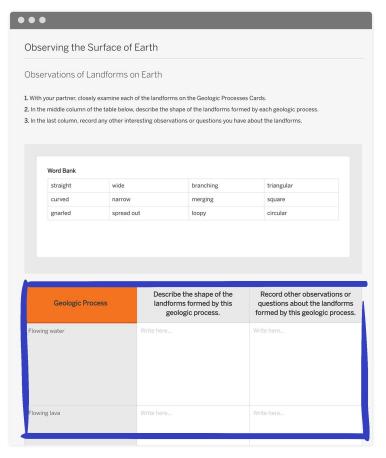
You can also record other observations and questions you have.

Geologic process	Describe the shape of the landforms formed by this geologic process.	Record other observations or questions about the landforms formed by this geologic process.
Flowing water		
Flowing lava		

Word Bank

Straight Wide Branching Triangular Curved **Narrow** Merging Square Gnarled Spread out Loopy Circular

Geology on Mars: Lesson 1.2



You will record observations about the **shape** of the landforms in this table.

You can also record other observations and questions you have.

Geologic Process: Flowing Water



Okavango River, Botswana, Africa



Madre de Dios River, Amazon



River in the Altai Mountains, Russia



Orange River, South Africa

Geology on Mars—Geologic Processes Cards—Lesson 1.2—AMP615582.09-GOM

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Image credits (left to right): Franz Lanting/Mint Images/Getty Images, NASA, Shutterstock, Richard du Toit/Gallo Images/Getty Images

Geologic Process: Flowing Lava





Iwate Prefecture, Japan



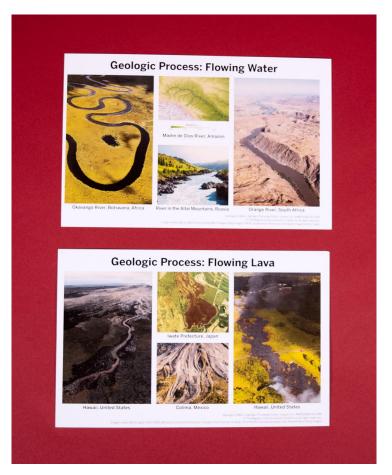
Colima, Mexico



Hawaii, United States

Hawaii, United States

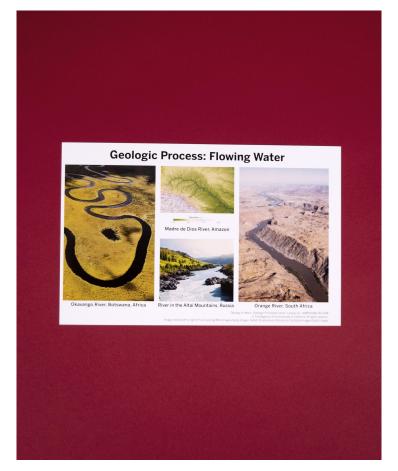
Geology on Mars-Geologic Processes Cards-Lesson 1.2-AMP615582.09-GOM @ The Regents of the University of California. All rights reserved. Image credits (left to right): HVO/USGS; Ministry of Land, Infrastructure, Transport and Tourism of Japan; Tom Pfeilfer/volcanodiscovery.com; Andrew Hara/Getty Images







What did you notice about the images of landforms?



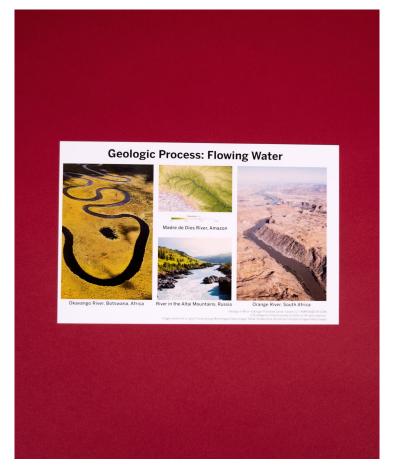
Some geologic processes form landforms that look similar.





How are the shapes of the landforms in the images of **flowing water** similar?

How are they different?







How are the shapes of the landforms in the images of **flowing lava** similar?

How are they different?

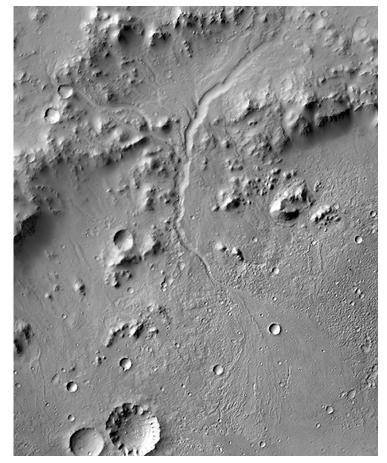
Key Concept

2. When landforms on different rocky planets look similar, it is evidence that they may have been formed by the same geologic process.



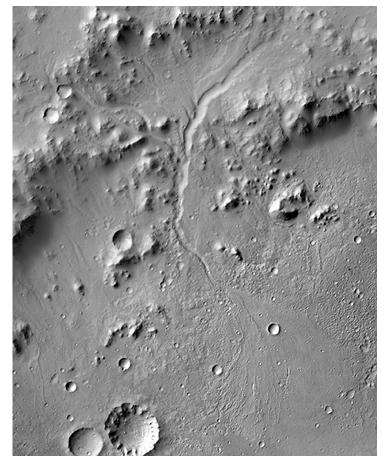
What geologic process could have formed the channel on Mars?

Geology on Mars: Lesson 1.2



This landform was likely formed by **flowing water** or flowing lava. To help us figure out which, we'll learn more about what happens when water and lava flow on Earth.

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Think about the processes that formed the landforms you just observed.





Does this channel on Mars look **similar** to any of the landforms you observed on Earth?

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Based on the similarities between the channel on Mars and landforms that are formed by flowing lava and flowing water on Earth, either geologic process could have caused the channel on Mars to form.

We'll examine **more evidence** about these possible causes.

Family Homework Experience





For this activity, you will work to find evidence of geologic processes.

Then, you will record your observations and describe the evidence of a geologic process that you observed.

End of Lesson



Amplify.

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Classroom Wall

Unit Question

How can we search for evidence that other planets were once habitable?

Chapter 1 Question

What geologic process could have formed the channel on Mars?

Investigation Question

How does our understanding of Earth help us learn about other rocky planets?

Key Concepts

- 1. Earth, Mars and other rocky planets can be thought of as systems. These systems are made up of interacting spheres than can include the geosphere, atmosphere, hydrosphere, and biosphere.
- 2. When landforms on different rocky planets look similar, it is evidence that they may have been formed by the same geologic process.

Vocabulary

habitable

rocky planet

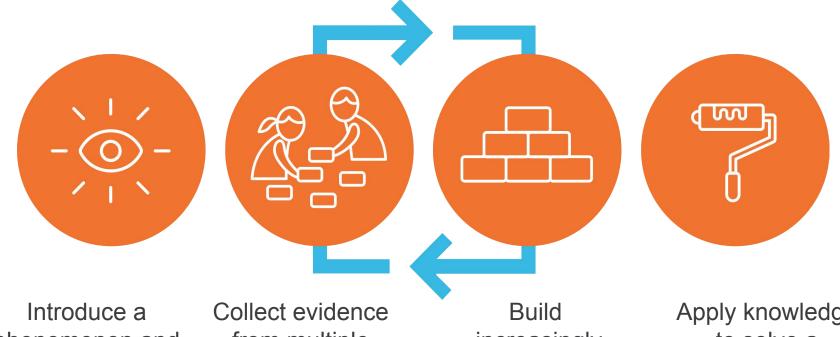
system

landform

channel

geologic process

What aspects of the Amplify Science Instructional Approach did you experience in the Launch Unit?



Introduce a phenomenon and a related problem

Collect evidence from multiple sources

increasingly complex explanations

Apply knowledge to solve a different problem

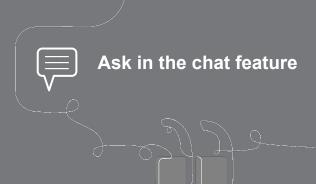
Lesson Reflection



Answer in the chat feature

How is a launch unit lesson similar/different from a core unit lesson?

What questions do you have?



Questions?

5 min break

















Plan for the day

- Experiencing the Launch Unit
- Launch Unit Components
- Planning to Teach
- Remote/Hybrid Resources
- Closing and reflection

Launch Unit Components



Argumentation in Amplify Science



Amplify.

Goals for argumentation in Amplify Science

- To provide students an authentic opportunity to engage in the practice of argumentation
- To make clear to students the purpose of argumentation and the role it plays in building and communicating scientific knowledge
- To help students build their own knowledge through argumentation



Specific goals for argumentation in launch units

- Introduce the practice of argumentation in science
- Introduce **tools** that will be used throughout the year to support students in getting better at specific aspects of oral and written argumentation:
 - Card sorts
 - Evidence gradient
 - Reasoning tool

Completed Scientific Argumentation Wall Diagram

Scientific Argumentation

2.3

The purpose of a scientific argument is to convince others, using evidence and reasoning.

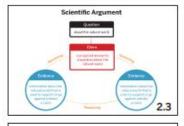
Evaluating Evidence

2.3

2.3

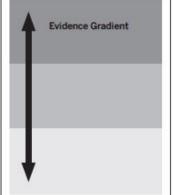
Scientists use relevant evidence to support a claim.

2.3





2.3



Example Student Argument

A scientific argument . . .

- . begins with a question.
- . has a claim that proposes an answer to the question.
- · has evidence that supports the claim.
- · clearly explains how the evidence supports the claim (reasoning).

Argumentation Sentence Starters

- . I think this evidence supports this claim because ...
- I don't think this evidence supports this claim because
- · Lagree because . . .
- I disagree because . . .
- + Why do you think that?

2.3

2.6

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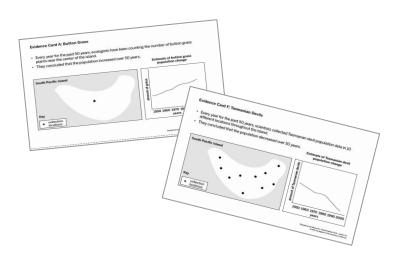
Reasoning Tool

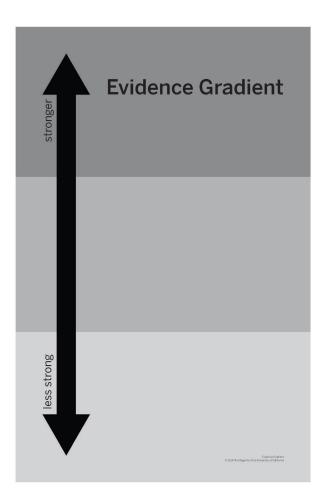
Reasoning Tool

Evidence	This matters because (How does this evidence support the claim?)	Therefore, (claim)

Evidence Gradient

Evidence is higher quality if it comes from a reliable source.





Introducing Argumentation, Lesson 1.3

Independent work time directions:

- Navigate to lesson 1.3
- Use the lesson materials to find out how argumentation is introduced.
- Be ready to share out.

Reflection

- How is argumentation introduced? What tools/scaffolds are included to support students in developing this practice?
- Is there anything you anticipate your students will find challenging? What action will you take to support them?

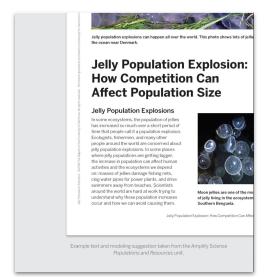
Active Reading in Amplify Science



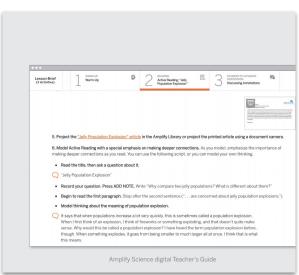
Amplify.

Active Reading

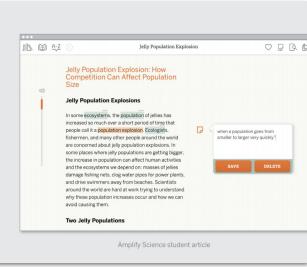
Teacher Modeling



Step 1: An excerpt of student text is read aloud by the teacher



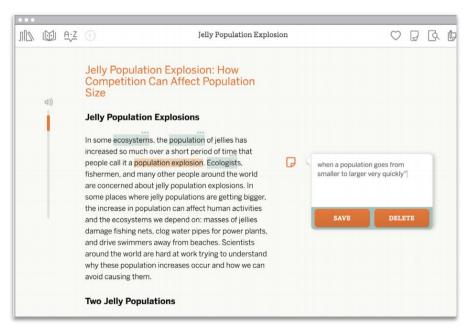
Step 2: The teacher models her thinking



Step 3: The teacher models annotating the text

Active Reading

The first read



Students individually annotate the text by taking notes, and recording questions.



Students discuss their ideas and annotations with partners and dig back into the text together.

Active Reading

The second read



Students reread a portion of the article for a particular purpose such as to examine a specific visual representation, answer a question, find evidence to support a claim or draw conclusions across texts.



Students discuss the text with a partner

Active Reading Guidelines

- 1. Think carefully about what you read. Pay attention to your own understanding.
- 2. As you read, annotate the text to make a record of your thinking. Highlight challenging words and add notes to record questions and make connections to your own experience.
- **3.** Examine all visual representations carefully. Consider how they go together with the text.
- **4.** After you read, discuss what you have read with others to help you better understand the text.

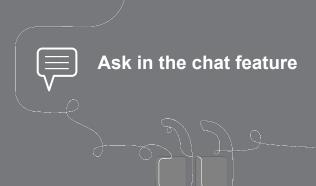
Introducing Active Reading, Lesson 2.1

Independent work time directions:

- Navigate to lesson 2.1
- Use the lesson materials to see how active reading is introduced.
 - Make sure to click on the article link to explore the digital text.
- Be ready to share out.

<u>Reflection</u>

- How is active reading introduced? What tools/scaffolds are included to support students?
- Is there anything you anticipate your students will find challenging? What action will you take to support them?

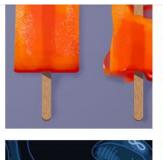


Questions?

5 min break



















Plan for the day

- Experiencing the Launch Unit
- Launch Unit Components
- Planning to Teach
- Remote/Hybrid Resources
- Closing and reflection

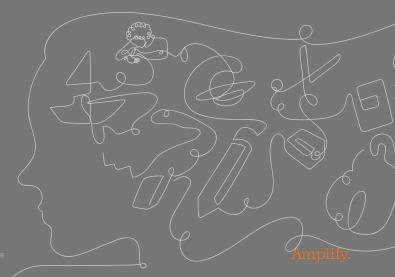
Planning to Teach







How do you typically prepare to teach a new unit?



Practice Planning a Lesson



What you need for this section:



Google or Word document

OR



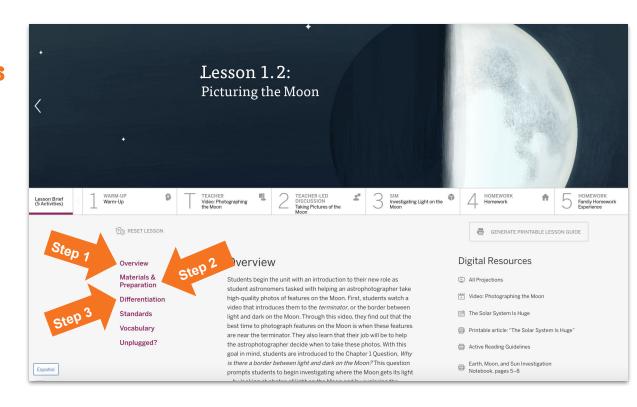


Follow these 3 Easy Steps for lesson preparation

Step 1: Read the lesson overview

Step 2: Read the Materials and Preparation section

Step 3: Read the Differentiation section



Go 'live' to walk through lesson planning

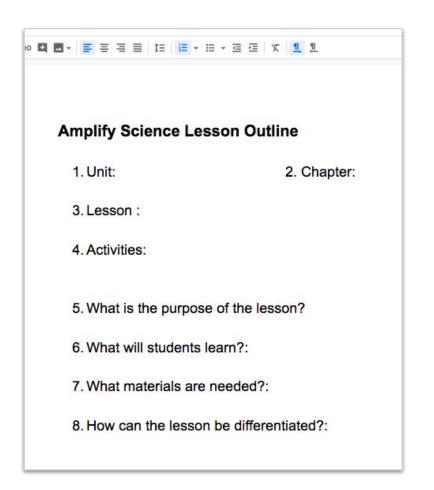
Outline your lesson

Follow these 3 Easy Steps for lesson preparation

Step 1: Read the lesson overview

Step 2: Read the Materials and Preparation section

Step 3: Read the Differentiation section





Reflect on planning a lesson

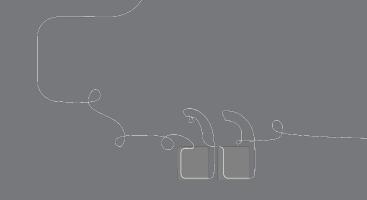
Reflecting on planning a lesson How are students introduced to the unit's anchor phenomenon? What are the big ideas students take away from the lesson? What key vocabulary will students engage with? What are a few learning modalities students engaged with during the lesson? How are students thinking and solving problems like a scientist?

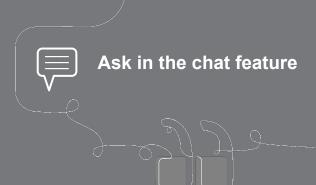
Debrief





What might your students be challenged by?



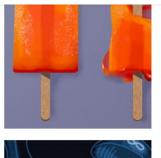


Questions?

5 min break













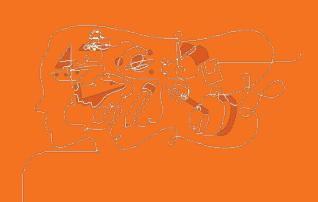




Plan for the day

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Remote/Hybrid Resources



Remote/Hybrid Learning Guidance

amplify.com/remotelearning

 Access resources and suggestions for using Amplify programs remotely.

Program Hub

- Access two new product features for teaching select units in various remote models.
 - Amplify Science@Home Videos
 - Amplify Science@Home Units







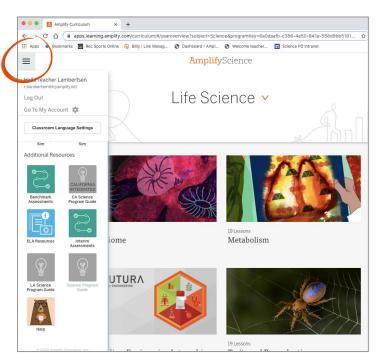


Amplify Science Program Hub

A new hub for Amplify Science resources

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

science.amplify.com/programhub



Amplify Science@Home

A suite of resources that...

- Are designed for students to complete independently
- Require no materials except a pencil and paper
- Include digital and print-only options
- Can be leveraged in a variety of remote and hybrid instructional formats





Amplify Science@Home

@Home Units

 Packet or slide deck versions of Amplify Science units condensed by about 50%

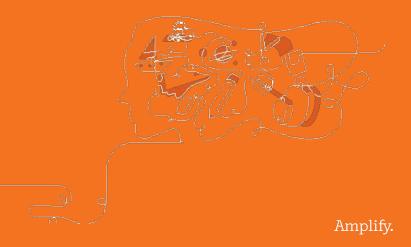
@Home Videos

 Video playlists of Amplify Science lessons, taught by real Amplify Science teachers





Tips for selecting and using the resource



Selecting @Home Units

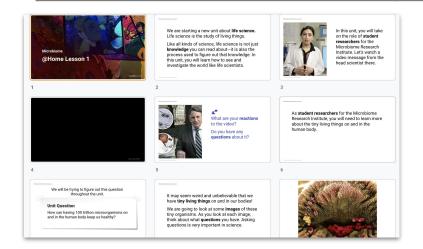
You might use this resource if...

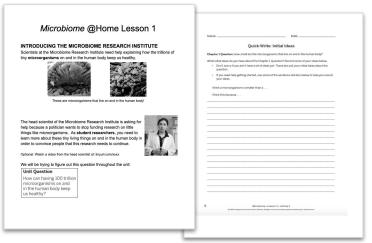
- You have less instructional time for science than you normally would
- You need a solution for remote, asynchronous student learning some or all of the time

Two options for student access

For students with consistent access to technology at home, use @Home Slides

For a print-only option, use @Home Packets





@Home Unit resources

All resources are fully editable and customizable

- Teacher Overview
 - Outlines the unit and summarizes each lesson
- Family Overview
 - Provides context for families
- Student materials
 - 30-minute lessons featuring subsets of activities from Amplify Science curriculum

Student materials

- Brief narrative sections providing key content
- Activity instructions
- Vocabulary support
- Student sheets for writing, drawing, and diagramming
- Packets available in Word or .pdf
- Slides available in PowerPoint or .pdf





Teacher Overview

- Instructions for establishing key routines
- Pacing suggestions for expanding or further condensing
- Assessment considerations for each chapter
- Guidance for synchronous and in-person learning for each lesson

@Home Unit Overview: Microbiome

About the @Home Units

The Amplify Science @Home Units are versions of Amplify Science units adapted for use with asynchronous instruction in a remote learning or hybrid learning situation. The resources, delivered in either digital or printable form, allow students to complete activities independently or with minimal help from a family member. @Home Units focus on a reduced set of prioritized activities, while preserving a coherent instructional build. The @Home Units retain a multimodal approach, engaging students in adapted versions of doing, talking, reading, writing, and visualizion.

These resources are intended to be modified and adapted for your particular situation. We provide suggestions for further adjusting the lessons for your context, including how to use the resources when some synchronous or in-person instruction is possible. For more in-depth information and the full teaching guide, please refer to the Microbiome unit at learning amplify. Good or your print Teacher's Guide.

Overview of @Home Unit Resources

Teacher resources

This @Home Unit Overview provides general information for teaching with the @Home Units. It also contains chapter-specific outlines for the @Home Microbiome unit with guidance about the subset of unit activities to be taught.

Student resources

The @Home Units include two options for student access during asynchronous learning:

- @Home Slides + Student Sheets (for students with consistent access to technology at home)
- @Home Packets (for students without consistent access to technology at home)
 Both options provide guidance for students to complete the lessons independently or with minimal family support. For students using the @Home Packets, adaptations have been made so that digital resources, such as student apps and videos, are eliminated or optional. Similarly, or both @Home Sildes and @Home Packets, activities which require specific physical materials have been modified or made optional. Note: student resources include information about how to access videos of these activities, which can be viewed on any digital device, including smart phones.

lete only one chapter, your students will i do not complete the entire unit, you may ihenomenon.

; students engage with key ideas through ting, talking and writing. If needed one or dents will still have exposure to key ng activities are provided with each

ssons may be appropriate in your include:

Microbiome unit, Specific suggestions

ne Microbiome Investigation Notebook.
d of each chapter.
ints to explore, for example mold growing iome explorations, phenomena ideas.

ne Microbiome Opportunities for Unit

t/uploads/science-unit-extensions/MB-O

Remote Learning

a by using science and engineering and make explanations and arguments ing, and visualizing. They also make assroom wall. While we have retained at home will require adaptations.

se adaptations, but you may need to set

up expectations for specific routines or provide additional <u>supports</u> to your students. Below are ideas for how different aspects of the Amplify Science approach might be adapted for your learners' particular contexts.

Student Talk options

. Talk to a member of their household about their ideas

Family Overview

- Introduction to the unit and types of activities
- List of key ideas and vocabulary
- Suggestions for supporting students working at home



Hello!

Your student is about to start a unit called *Microbiome* in science class. We hope that the information here can help support you as you guide your student through their at-home science learning.

We are using a program called Amplify Science, which is split up into units about different areas of science. In each unit, students start by wondering about something that happens in the real world and they investigate, talk, read, write, think, and argue like real scientists and engineers in order to figure out how and why that thing happens.

In the Microbiome unit, students learn about the trillions of microorganisms that live on and in the human body, which all together are called the human microbiome. As they figure out what's going with one patient's microbiome, students get familiar with the practices of science, including the specific ways that scientists investigate, talk, read, write, and argue. These practices will be important as students study science throughout the year, and beyond.

We are using a version of Microbiome that is specially designed for at-home learning. It gives students many opportunities to consider different questions about the human microbiome, gather evidence to help them understand, then use that evidence to make an explanation. This means students will be doing activities that involve talking, writing, reading, and investigating.

In order to support your student, you can help them with understanding directions, writing about their ideas, and reading articles. Students are asked to do some activities with a partner, and you can be your student's partner as they talk over questions and ideas and practice scientific arguments.

In this unit, students are investigating what's happening with Patient 23, and you may wish to ask your student:

- "What did you figure out in your science lesson today?"
- "How does that help you understand what's happening with Patient 23?"
 Answering these questions after every lesson can help students understand more deeply and keep them interested in learning more.

see, cells are much bigger than molecules.

imately 100 trillion microorganisms. Most of

nt (food and space) for bacteria to survive.

Il types of bacteria.

uman microbiome can make a person sick.

I and harmful bacteria in the microbiome.

pful bacteria in their guts can become infected
and space available for harmful bacteria.

Jse?

at students use throughout the unit. Getting imes different from how people use these sport your student's at-home learning. Your words along with additional words from the

anisms, especially bacteria icroorganismos, especialmente las bacterias y fa a single cell án hechos de una sola célula I living things and are the smallest units able to

nstituyen todos los seres vivientes y que son las impeñar las funciones de la vida about the natural world ma pregunta sobre el mundo natural world that is used to support or go against

evidencia: información sobre el mundo natural que se utiliza para respaldar o rechazar (refutar) una afirmación

- microbiome: all of the microorganisms that live in a particular environment, such as a human body microbioma: todos los microorganismos que viven en un ambiente específico, por
- microbioma: todos los microorganismos que viven en un ambiente específico, po ejemplo en un cuerpo humano

 microorganism: an organism that is too small to be seen with the naked eye
- microorganismo: un organismo que es demasiado pequeño como para ver a simple vista
- · microscopic: too small to be seen with the naked eye

Selecting @Home Units

Different ways to use the resource

- Assign students @Home Lessons to work through independently at home
- Teach live during in-person or online synchronous time
 - Refer to Teacher Overview resources for suggestions for synchronous instruction, or
 - Revisit hands-on activities, digital tool uses, or discussion moments

@Home Units example use case

Remote Asynchronous Model: Students work flexibly through

content





Assign @Home Lessons 1-2 (Packets or Slides)





Friday

Students submit work product through email, or by writing on paper and texting the teacher a photo of their work

@Home Units example use case

Hybrid Model: Teach live during in-person time











Monday-Tuesday

Remote

Assign: @Home Lesson 1 (Packet or Slides)

Wednesday

In-person

Teach: @Home Lesson 1: Ideas for synchronous or in-person instruction

Thursday-Friday

Remote

Assign: @Home Lesson 3 (Packet or Slides)

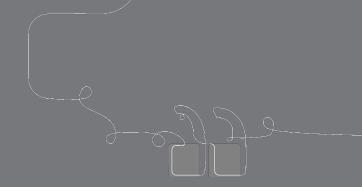
Planning to use @Home Units

- Download and read your unit's **Teacher Overview** on the Program Hub
- Plan for establishing key routines for talk, writing, reading, hands-on, and classroom wall references
 - (See: Adapting the Amplify Science Approach for Remote Learning in your unit's Teacher Overview)
- Determine how students will access slides or packets, and how they will submit work
- Consider pacing, including when you have synchronous science time with your students (if applicable)

Reflection

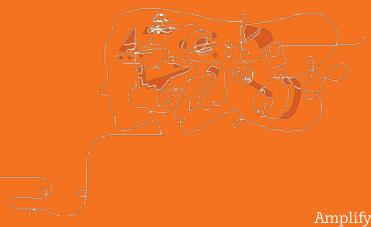
What other ideas do you have for using @Home Units?

How could you make this resource work for your learning scenario?



@Home Videos

Tips for selecting and using the resource



Selecting @Home Videos

You might use this resource if...

- Your students have access to internet-connected devices at home
- You have about the same amount of instructional time for science as you normally would
- You need a solution for remote, asynchronous student learning some or all of the time



Selecting @Home Videos

Different ways to use the resource

- Assign students video lessons to watch at home
- Teach live during in-person or online synchronous time!
 - Teach full lessons, or
 - Revisit parts of lessons in the videos students have already watched
- Watch the videos yourself as a model, then make videos of yourself teaching to send to your students

@Home Videos example use case

Hybrid Model: Teach live during in-person time







Wednesday



Thursday



Monday

Assign: Lesson 1.1

Remote

Video

In-person

Teach: Lesson 1.2 live

Tuesday

Remote

Assign: Lesson 1.3 Video

Remote

Assign: Lesson 1.4 Video

Friday

In-person

Revisit: hands-on or discourse-based activities the week's lessons

124

@Home Videos example use case

Remote Synchronous Model: Discussions during online class



Monday

Asynchronous

Assign: Lesson 1.1 Video



Tuesday

Asynchronous

Assign: Lesson 1.2 Video



Wednesday

Synchronous

Teach: Lead class discussion to review key ideas from 1.1 and 1.2



Thursday

Asynchronous

Assign: Lesson 1.3 Video



Friday

Asynchronous

Assign: Independent written reflection about week's lessons

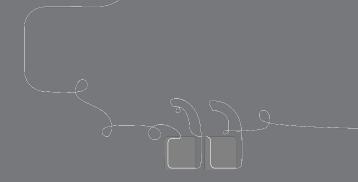
Planning to use @Home Videos

- Determine how students will access videos, and how they will submit work
- Consider pacing, including when you have synchronous science time with your students (if applicable)
- Plan for student access to digital tools and/or digital books and articles (if applicable)
- Consider how you'll communicate with families about this resource

Reflection

What other ideas do you have for using @Home Videos?

How could you make this resource work for your learning scenario?

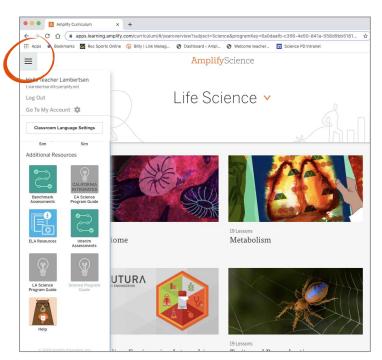


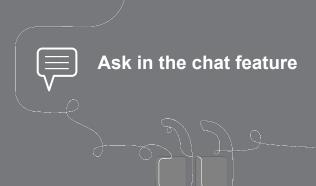
Amplify Science Program Hub

A new hub for Amplify Science resources

- Click on Global Navigation
- Scroll down and click on Program Hub
- Take some time to explore the resources here.

science.amplify.com/programhub





Questions?











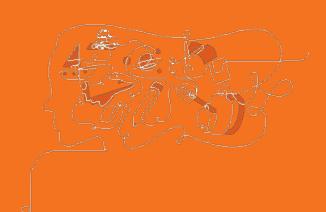


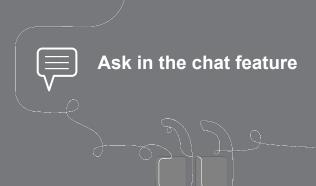


Plan for the day

- Experiencing the Launch Unit
- Launch Unit Components
- Planning to Teach
- Remote/Hybrid Resources
- Closing and reflection

Closing and Reflection





Questions?

Revisiting Day 2 Objectives

Are you able to...

- Understand the purpose of Launch Units?
- Apply program essentials to prepare to teach an Amplify Science Launch Unit?
- Make an informed decision about which of the Amplify Science Hybrid Learning Resources will best support your students?

Overarching goals

By the end of this institute, you will be able to:

- Navigate the Amplify Science curriculum.
- Understand the program's multimodal approach and instructional materials.
- Apply program essentials to prepare to teach an Amplify Science unit.
- Make an informed decision about which of the Amplify
 Science Hybrid Learning Resources will best support your
 students.

Closing reflection



Based on our work today, share:

Brain: something you'll keep in mind

Heart: something you're feeling

Feet: something you're planning to do

New York City Resources Site

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

Amplify.

Amplify Science

Login information

- Pacing guides
- Getting started guide
- NYC Companion Lessons
- Resources from professional learning sessions
- And much more!

YC (6-8)

resources designed for

ion Amplify Science



THE LAWRENCE
HALL OF SCIENCE
UNIVERSITY OF CALIFORNIA, BERKELEY

Amplify.

UPDATES: Summer 2020

Program Rollover – Login Access: It's an exciting time for Amplify Science as we are updating our program to reflect all of the amazing new features for the 2020-21 school year! During this rollover process (July 1-17), you will be temporarily unable to login with your personal account so we can apply the most recent upgrades to our content that will assist with your summer planning for the 20/21 school year.

We encourage you to use the NYC reviewer site for full curriculum access during the transition. Once on the site, scroll to the bottom of the page and select $Begin\ your$ review \rightarrow select your grade level \rightarrow teacher.

On July 18, your personal login will be restored and you will be able to log back in with your regular credentials to see the updated curriculum for 20/21 in your

COVID- 19 Remote learning resources 2020

Professional learning resources

Questions

Additional Amplify resources





Program Guide

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

my.amplify.com/programguide

Amplify Help

Find advice and answers from the Amplify team.

my.amplify.com/help

Additional Amplify support

Customer Care

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



800-823-1969



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



Amplify Chat

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.

Please provide us feedback!

URL: https://www.surveymonkey.com/r/InitialAmplifySciPL

Presenter name:



Workshop title: Navigating Program Essentials 6-8

Modality: Remote



