# **Amplify** Science

# Unit Internalization / Guided Planning

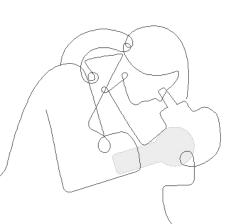
Grade 2, Unit 3: Changing Landforms

Part 1

School/District Name: LAUSD

Date:

Presented by:





# Amplify's Purpose Statement

#### Dear teachers,

You do a job that is nearly impossible and utterly essential.

We are in your corner – extending your reach, saving you time, and enhancing your understanding of each student.

Thank you for working with us to craft rigorous and riveting learning experiences for your classroom.

We share your goal of inspiring all students to think deeply, creatively, and for themselves.

Sincerely, Amplify

# Norms: Establishing a culture of learners



Please keep your camera on, if possible.

Take some time to orient yourself to the platform

o "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

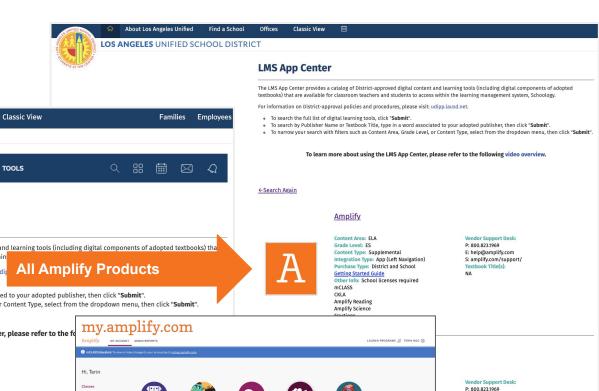


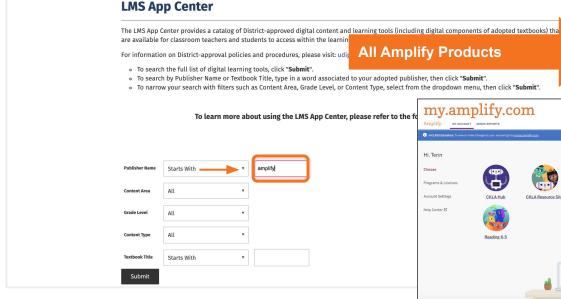
Make sure you have a note-catcher present



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

## Schoology





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mCLASS Assessment



mCLASS Reporting



Reading 6-8



Reading K-5



**Science** 



Vocabulary



# Amplify. on Schoology 2021-2022





# Schoology

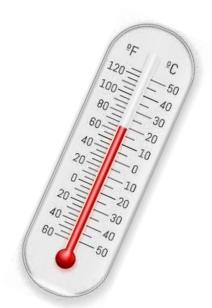
To join Amplify ES Group: W4PK-W466-63F5B



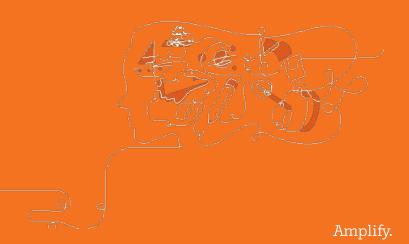
## Navigation Temperature Check

Rate yourself on your comfort level accessing Amplify Science materials and navigating a digital curriculum.

- 1 = Extremely Uncomfortable
- 2 = Uncomfortable
- 3 = Mild
- 4 = Comfortable
- 5 = Extremely Comfortable



# Part 1



# Overarching goals

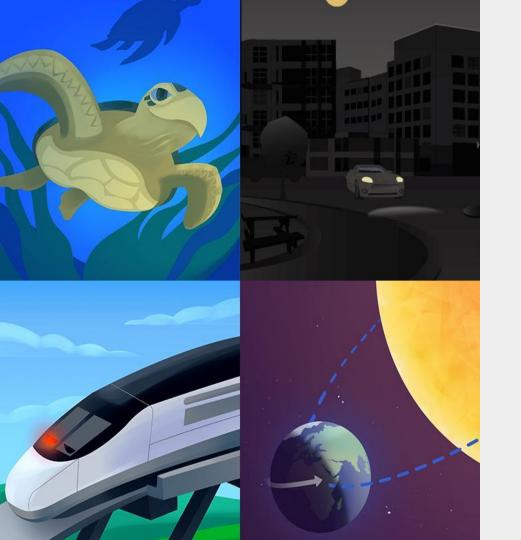
- Explain how students engage in phenomenon based and 3D learning to construct an understanding of the science concepts introduced in *Changing Landforms*.
- ☐ Internalize the unit and apply your new understanding to plan for the diverse needs of your classroom and students

# Opening Reflection

What are your goals for student outcomes?

Participant Notebook

#### Reflection Use the provided spaces as a place for reflection throughout the session. Session goals and student outcomes What How Connect the workshop goal(s) to an outcome Reflect on why you want this outcome for How will your students achieve the outcome? you envision for your students. your students. Reflect on what you learned during the workshop that will impact student outcomes.



# Plan for the day: Part 1

- Introduction and Framing
- NGSS & 3D Learning
- Phenomenon-based Instruction
- Unit Internalization
- Additional Resources
- Closing



# + Amplify.

# **Amplify** Science

#### Course curriculum structure

#### Grade K

- · Needs of Plants and Animals
- · Pushes and Pulls
- · Sunlight and Weather

#### Grade 1

- · Animal and Plant Defenses
- · Light and Sound
- Spinning Earth

#### Grade 2

- Plant and Animal Relationships
- · Properties of Materials
- · Changing Landforms

#### Grade 3

- · Balancing Forces
- Inheritance and Traits
- · Environments and Survival
- · Weather and Climate

#### Grade 4

- Energy Conversions
- Vision and Light
- Earth's Features
- Waves, Energy, and Information

#### Grade 5

- · Patterns of Earth and Sky
- Modeling Matter
- The Earth System
- · Ecosystem Restoration

# Key takeaways:

- There are 22 lessons per unit
- Lessons at grades 2-5 are 60 minutes long





**Domain**: Life Science

**Unit type**: Investigation

Student role: Plant Scientists



#### **Properties of Materials**

Domains: Physical Science, Engineering Design

Unit type: Engineering design

Student role: Glue engineers



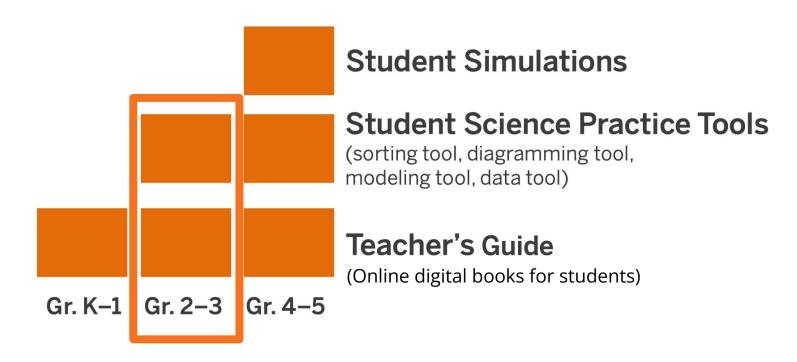
#### **Changing Landforms**

**Domain**: Earth and Space Science

**Unit type**: Modeling

**Student role**: Geologists

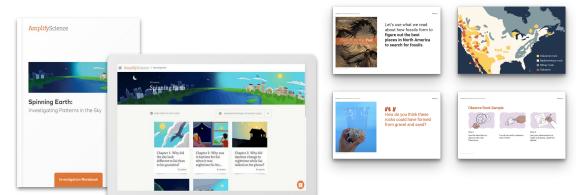
# What are the digital components of Amplify Science Elementary?

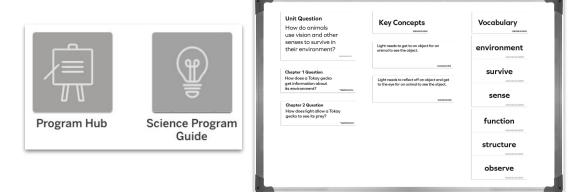


### K-5 Program components

#### Teacher materials

- Teacher's Guide (print and digital)
- Classroom Slides
- Classroom wall materials
- Embedded assessments
- Program Guide
- Program Hub
- Amplify Help Site

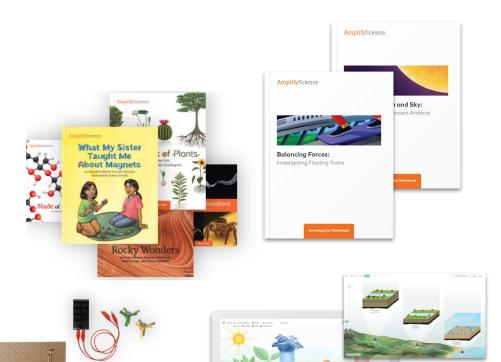




### K-5 Program components

#### Student materials

- Hands-on materials
- Investigation Notebooks (print and digital)
- Student books
- Digital Applications (only in 2-5)



### K-5 Program components

#### Classroom kits



#### **Classroom kits**

Built for a class of 36 students, with consumables for two years

# **Chapter 1 Question**

How did the edge of the cliff get to be so close to the flagpole?

lesson use. Return to bookcase so they are easily accessible.)



## Cards for games, sorting or matching activities

#### Organization tips:

- Separate and place in envelopes or bags (or clip together)
- Label the envelopes or bags with the name and lesson # and activity # (ex. Lesson 2.4, Act. 1)
- Put each envelope or bag (1 set) into a bigger bag and label



#### **Lesson Overview Compilation**

### Grades K and 1

Lawrence Hall of Scie students.

Key Concepts are not printed on card stock What can we see in the sky

understandings shou at different times?

Lesson 11-13

**Unit Ouestion** 

Chanter Question

Why does the sky look different at different times? Chapters

Printable Resources

Chapter 1: Why did the sky look different to Sai than to his grandma?

1.1.2.1.3)

places on Earth right now? (1.4, 1.5)

en it was nighttime for his grandma?

en it is nighttime in other places? (2.1, 2.2, 2.3, 2.4)

#### Two Suggestions:

- Have blank sentence strips ready to use
- strips. Label wit them with the c compilation)

Standards and Goals 3-D Statements

- We can see the sun in the sky during the daytime and the stars in the sky during the nighttime. (1.3
- Right now, the sky looks different to people in different places on Earth. (1.5)

when developin add to the class What does the sky look like Write out key co strips. Label wit to people in different places they can be foun on Earth right now?

**Unit Overview** 

Planning for the Unit A

Compilation

Lesson 1.4, 1.5

are facing the sun. (2.3)

for his grandma?

• It is nighttime for people in places on Earth that are not facing the sun. (2.3)



# LAUSD Micrositehttps://amplify.com/laus



# Welcome to Amplify Science!

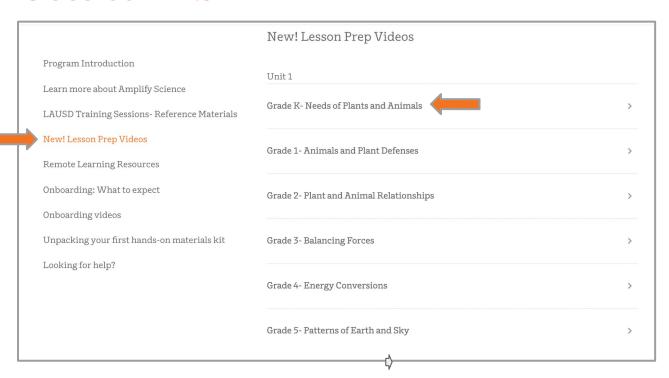
This site contains supporting resources designed for the LAUSD Amplify Science adoption for grades TK-8.

- Access the Amplify Science Program Hub (To help orient you to the new design, watch this video and view this reference guide.)
- Find out more about Amplify Science@Home
- Share the Caregiver Hub (Eng/Span) with your families
- For LAUSD ES Teachers- Amplify Science & Benchmark
   Advance Crosswalk
- Instructional guidance for a Responsive Relaunch of Amplify Science in 21-22

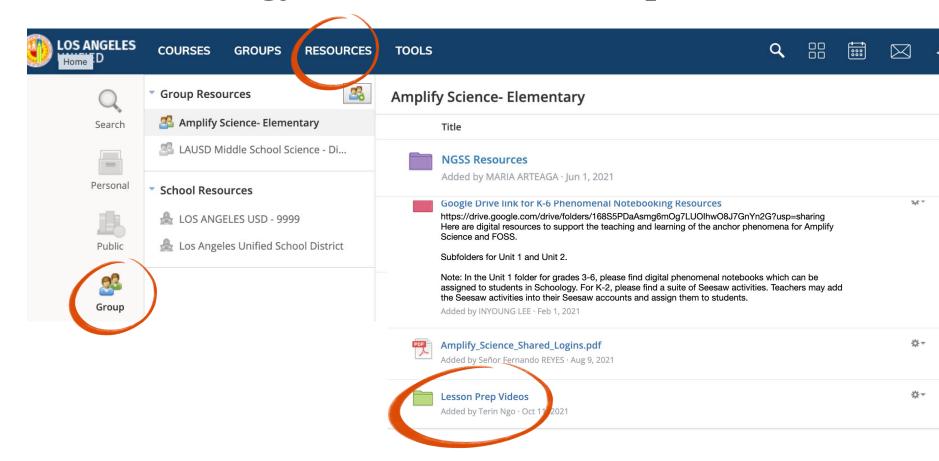
Click the button below to preview the digital Teacher's Guide, and check back for exciting updates to this site!

### Microsite: Unit 1, K-2 Lesson Prep Videos

#### Classroom kits



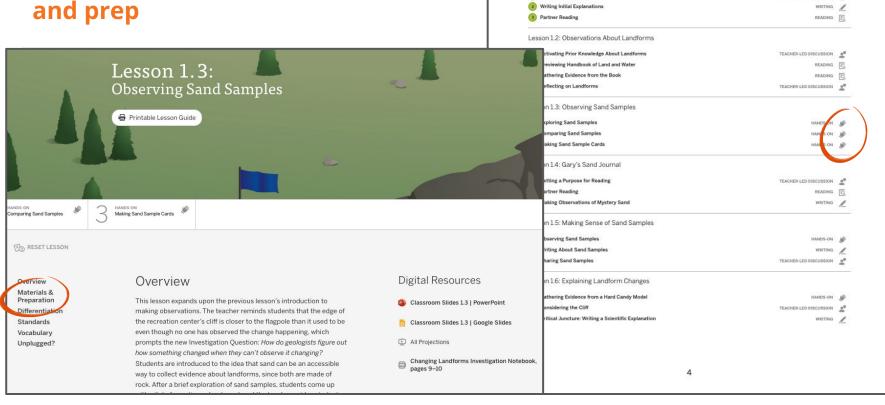
## LAUSD Schoology: Unit 1, 3-5 Lesson Prep Videos



# Hands On Material Organization

Lesson Guides	Only page 7 from	m the Unit Landir	ng page or go the Print TE to page 31. (Chapter 1 Activities)	
ons with Hands	On.			
below.				
rials and prepa	ration to determine	ne if it can be pre	pared prior to the lesson or on the day of the lesson.	
rocedure for ea	ch Chapter. (Go t	to the Chapter Ad	ctivities Contents)	
Activity	Prep Prior	Prep Day of	What to do	
1	х		Prep plastic bags with labels A, B, C, D and M. Place 1 tsp of the following cinnamon, salt, flour, cornstarch in A,B,C, D. In bag M mix 1 tsp salt and 1 tsp cinnamon.	This is an example from Properties of Materials Grade 2
	12			
	(a)			
	below. rials and preparocedure for ea	below. rials and preparation to determine rocedure for each Chapter. (Go to Activity Prep Prior	below. rials and preparation to determine if it can be pre- rocedure for each Chapter. (Go to the Chapter Ac  Activity Prep Prior Prep Day of	below.  rials and preparation to determine if it can be prepared prior to the lesson or on the day of the lesson.  rocedure for each Chapter. (Go to the Chapter Activities Contents)  Activity Prep Prior Prep Day of What to do  Prep plastic bags with labels A, B, C, D and M. Place 1 tsp of the following cinnamon, salt, flour, cornstarch in A,B,C, D. In bag M mix

- Open Your Lesson Guides Only
- Start with Chapter 1 and look for the hands icon
- Go into the lesson materials and prep



Chapter 1 Activities

Chapter 1 Activities

Lesson 1.1: Pre-Unit Assessment

Introducing the Unit

Changing Landforms

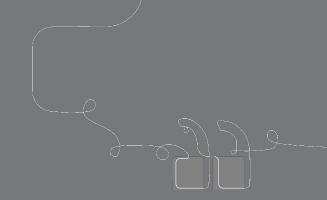
Lesson Guides

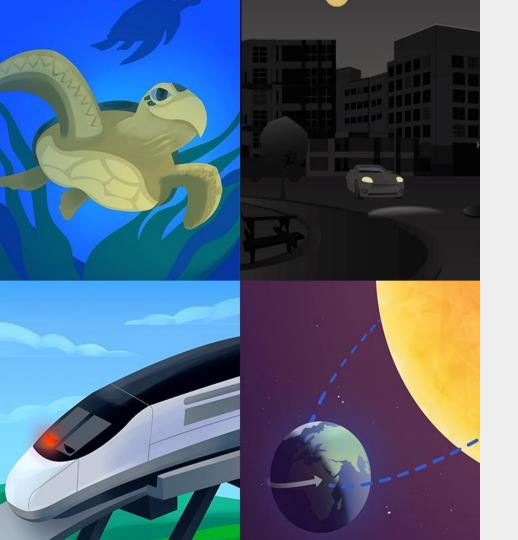
# Hands On Material Organization

Completed for Changing Landforms

1	Directions					7	
2	1. Open the Digital Lesson Guides Only page 7 from the Unit Landing page or go the Print TE to page 31. (Chapter 1 Activities)						
3	2. Look for the lessons with Hands On.						
4	MANGE OH 🎉						
5	3. Note in the table below.						
6	4. Review the materials and preparation to determine if it can be prepared prior to the lesson or on the day of the lesson.						
7	5. Use this same procedure for each Chapter. (Go to the Chapter Activities Contents)						
8							
9	Chapter/Lesson	Activity	Prep Prior	Prep Day of	What to do	This is an	
10	1.1	1	x		Prep plastic bags with labels A, B, C, D and M. Place 1 tsp of the following cinnamon, salt, flour, cornstarch in A,B,C, D. In bag M mix 1 tsp salt and 1 tsp cinnamon.	example from Properties of	
11	1.3	1,2	x		Each group of 4 students:label 4 self-sealing bags and lable bags "Sand 1," "Sand 2", "Sand 3" and "Sand 4"-add 2 Tbs of each type of sand in th the labeled bags, 4 index cards, 2 hand lenses, bottle of white glue		
12		1,2		×	Write investigation Qeustion on board or sentence strip: How do geologists figure out how something changed when they can't observe it changing?		
13		3	x		Prepare on Sand Sample Card for Activity 3: write name on index card, spread smll amount of glue, pinch sand from one sand sample bag and sprinkle on the glue on the card		
14	1.5	1	x		Need students' Sand Sample Cards from Lesson 1.3, for Pairs of students-1 hand lens, "Gary's Sand Journal		
15	1.6	1	x		8 hard candies placed in a jar tightly sealed, 1 paper plate	7.	
16	2.2	2	x		Each group of 4 students: 1 tray with 1 chunk of chalk in a plastic container, spray bottle filled with water, 2 hand lenses, 4 pairs of safety goggles		
17	2.5	1,2	x		Each group of 4 students: 1 tray with chunk of chalk in a plastic container, spray bottle with water, 2 hand lenses, 4 paris of safety goggles, and two pumice rocks		
18	3.2	2	x		For the class: pom-poms-set up pom-poms in a mound shaped like a mountain-form a peak on one side of the pom-pom mountain. Each student: 1 brown marker, 1 yellow marker, 1 green marker		
19	4.2	2	×		Each group of 4 students: chalk in a plastic container, spray bottle with water, (1/2 cup of kinetic sand in a plastic container-mold sand into mound into a plastic container), 2 hand lenses, and 4 goggles. For the class: Wind Erosion Model-1 cup of fine playground sand and a plastic straw on a tray		

# Questions?





# Plan for the day: Part 1

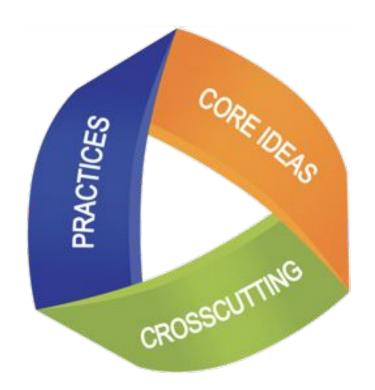
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### Next Generation Science Standards

Three dimensional learning

### Evaluate your knowledge

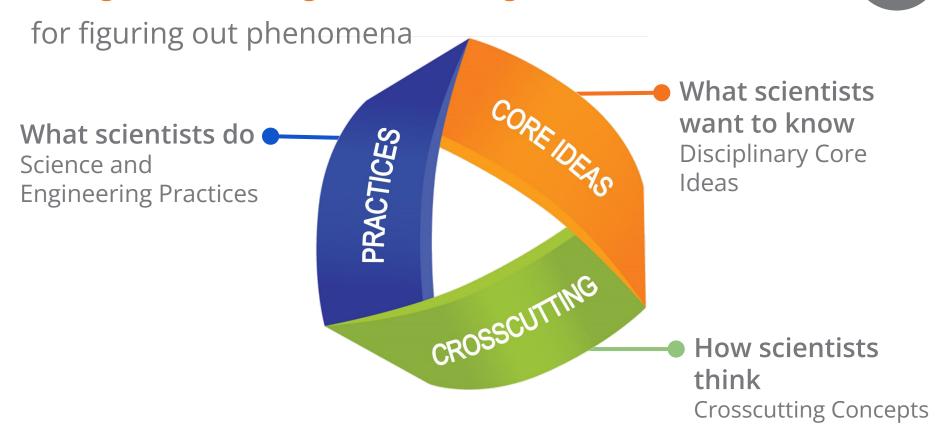
 On a scale of 0-5, how would you rate your familiarity with 3-D learning?



## Conceptual Shifts in NGSS

- K-12 Science Education Should Reflect the Interconnected Nature of Science as it is Practiced and Experienced in the Real World.
- 2. The Next Generation Science Standards are student performance expectations NOT curriculum.
- 3. The science concepts in the NGSS build coherently from K-12.
- 4. The NGSS Focus on Deeper Understanding of Content as well as Application of Content.
- 5. Science and Engineering are Integrated in the NGSS from K–12.
- 6. The NGSS are designed to prepare students for college, career, and citizenship.
- 7. The NGSS and Common Core State Standards (Mathematics and English Language Arts) are Aligned.

## Using 3-D teaching and learning



# Three dimensions of NGSS (CA) at a glance

	Science and Engineering Practices	Disciplinary Core Ideas		Crosscutting Concepts
SEP-1.	Asking questions and defining problems	Physical Science	CCC-1.	Patterns
SEP-2.	Developing and using models	PS1: Matter and its interactions	CCC-2.	Cause and effect: Mechanism and explanation
SEP-3.	Planning and carrying out investigations	PS2: Motion and stability: Forces and interactions		Scale, proportion, and quantity
SEP-4.	Analyzing and interpreting data	PS3: Energy	CCC-4.	Systems and system models
SEP-5.	Using mathematics and computational thinking	PS4: Waves and their applications in technologies for	CCC-5.	Energy and matter: Flows, cycles, and conser-
SEP-6.	Constructing explanations (for science) and	information transfer		vation
	designing solutions (for engineering)	Life Science	CCC-6.	Structure and function
SEP-7.	Engaging in argument from evidence	LS1: From molecules to organisms: Structures and	CCC-7.	Stability and Change
SEP-8.	Obtaining, evaluating, and communicating	processes		***
	information	LS2: Ecosystems: Interactions energy, and dynamics		
		LS3: Heredity: Inheritance and variation of traits		
		LS4: Biological evolution: Unity and diversity		
		Earth and Space Science		
		ESS1: Earth's place in the universe		
		ESS2: Earth's systems		
		ESS3: Earth and human activity		
		Engineering, Technology, and Applications of Science		
		ETS1: Engineering Design		
		ETS2: Links among engineering, technology, science,		
		and society		

# An Analogy between NGSS and a Cake



Baking a cake (performance expectations)



Baking Tools and Techniques (Science & Engineering Practices)

## Science and Engineering Practices

- 1. Asking questions (for science) and defining problems (for engineering)
- 2. Developing and using models
- 3. Planning and carrying out investigations
- 4. Analyzing and interpreting data
- 5. Using mathematics and computational thinking
- 6. Constructing explanations (for science) and designing solutions (for engineering)
- 7. Engaging in argument from evidence
- 8. Obtaining, evaluating, and communicating information



## An Analogy between NGSS and a Cake



Baking a cake (performance expectations)



Cake (Disciplinary Core Ideas)



Baking Tools and Techniques (Science & Engineering Practices)

## Disciplinary Core Ideas



Life Science		Physical Science
LS1:	From Molecules to Organisms: Structures and Processes	PS1: Matter and Its Interactions PS2: Motion and Stability: Forces and
LS2:	Ecosystems: Interactions, Energy, and Dynamics	Interactions PS3: Energy
LS3:	Heredity: Inheritance and Variation of Traits	PS4: Waves and Their Applications in Technologies for Information Transfer
LS4:	Biological Evolution: Unity and Diversity	
Eart	h & Space Science	Engineering & Technology
ESS1: Earth's Place in the Universe		ETS1: Engineering Design
	Earth's Systems  Earth and Human Activity	ETS2: Links Among Engineering, Technology, Science, and Society

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## An Analogy between NGSS and a Cake



Baking Tools and Techniques (Science & Engineering Practices)



Baking a cake (performance expectations)



Cake (Disciplinary Core Ideas)



Frosting (Crosscutting Concepts)

## **Crosscutting Concepts**

#### 5. Energy and Matter

Tracking energy and matter flows, into, out of, and within systems helps one understand their system's behavior.

#### 6. Structure and Function

The way an object is shaped or structured determines many of its properties and functions.

#### 7. Stability and Change

For both designed and natural systems, conditions that affect stability and factors that control rates of change are critical elements to consider and understand.

#### 4. Systems and System Models

A system is an organized group of related objects or components; models can be used for understanding and predicting the behavior of systems.

## NGSS Standards, Grade 2

What is Assessed

a collection of performance expectations describing what students should be able to do to master the standard

#### 2.Earth's Systems: Processes that Shape the Earth 2.Earth's Systems: Processes that Shape the Earth Students who demonstrate understanding can: 2-ESS1-1. Use information from several sources to provide evidence that Earth events can occur quickly or slowly. [Clarification Statement: Examples of events and timescales could include volcanic explosions and earthquakes, which happen quickly and erosion of rocks, which occurs slowly.] [Assessment Boundary: Assessment does not include quantitative measurements of timescales.] 2-ESS2-1. Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.\* [Clarification Statement: Examples of solutions could include different designs of dikes and windbreaks to hold back wind and water, and different designs for using shrubs, grass, and trees to hold back the land.] 2-ESS2-2. Develop a model to represent the shapes and kinds of land and bodies of water in an area. (Assessment Boundary: Assessment does not include quantitative scaling in models.1 2-ESS2-3. Obtain information to identify where water is found on Earth and that it can be solid or liquid. The performance expectations above were developed using the following elements from the NRC document A Framework for K-12 Science Education. Science and Engineering Practices **Disciplinary Core Ideas Crosscutting Concepts Developing and Using Models** ESS1.C: The History of Planet Earth **Patterns** Modeling in K-2 builds on prior experiences and progresses to . Some events happen very quickly; others occur very · Patterns in the natural world can be include using and developing models (i.e., diagram, drawing, observed, (2-ESS2-2),(2-ESS2-3) slowly, over a time period much longer than one can physical replica, diorama, dramatization, or storyboard) that Stability and Change represent concrete events or design solutions. ESS2.A: Earth Materials and Systems . Things may change slowly or rapidly. (2-. Develop a model to represent patterns in the natural world. . Wind and water can change the shape of the land, (2-ESS1-1).(2-ESS2-1) **Constructing Explanations and Designing Solutions** ESS2.B: Plate Tectonics and Large-Scale System Constructing explanations and designing solutions in K-2 builds Connections to Engineering, Technology, on prior experiences and progresses to the use of evidence and . Maps show where things are located. One can map the and Applications of Science ideas in constructing evidence-based accounts of natural shapes and kinds of land and water in any area. (2-ESS2phenomena and designing solutions. Influence of Engineering, Technology, and Make observations from several sources to construct an ESS2.C: The Roles of Water in Earth's Surface Science on Society and the Natural World evidence-based account for natural phenomena, (2-ESS1-1) . Developing and using technology has impacts . Compare multiple solutions to a problem. (2-ESS2-1) · Water is found in the ocean, rivers, lakes, and ponds. on the natural world. (2-ESS2-1) Obtaining, Evaluating, and Communicating Information Water exists as solid ice and in liquid form. (2-ESS2-3) Obtaining, evaluating, and communicating information in K-2 ETS1.C: Optimizing the Design Solution builds on prior experiences and uses observations and texts to . Because there is always more than one possible solution. Connections to Nature of Science communicate new information. to a problem, it is useful to compare and test designs. . Obtain information using various texts, text features (e.g., (secondary to 2-ESS2-1) Science Addresses Ouestions About the headings, tables of contents, glossaries, electronic menus, Natural and Material World icons), and other media that will be useful in answering a . Scientists study the natural and material scientific question. (2-ESS2-3) world. (2-ESS2-1) Connections to other DCIs in second grade: 2.PS1.A (2-ESS2-3) Articulation of DCIs across grade-levels: K.ETS1.A (2-ESS2-1); 3.LS2.C (2-ESS1-1); 4.ESS1.C (2-ESS1-1); 4.ESS2.A (2-ESS1-1).(2-ESS2-1); 4.ESS2.B (2-ESS2-2): 4.ETS1.A (2-ESS2-1); 4.ESS2.B (2-ESS2-1); ESS2-1); 4.ETS1.B (2-ESS2-1); 4.ETS1.C (2-ESS2-1); 5.ESS2.A (2-ESS2-1); 5.ESS2.C (2-ESS2-2),(2-ESS2-3) Common Core State Standards Connections: RI.2.1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text. (2-ESS1-1) RI.2.3 Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text. (2-ESS1-1),(2-ESS2-1) RI.2.9 Compare and contrast the most important points presented by two texts on the same topic. (2-ESS2-1) W.2.6 With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers. (2-ESS1-1).(2-ESS2-3) W.2.7 Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations). (2-ESS1-1) W.2.8 Recall information from experiences or gather information from provided sources to answer a question. (2-ESS1-1),(2-ESS2-3) Recount or describe key ideas or details from a text read aloud or information presented orally or through other media. (2-ESS1-1) SL.2.5 Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings. (2-ESS2-2) Mathematics -Reason abstractly and quantitatively. (2-ESS2-1),(2-ESS2-1),(2-ESS2-2) MP.4 Model with mathematics. (2-ESS1-1), (2-ESS2-1), (2-ESS2-2) MP.5 Use appropriate tools strategically. (2-ESS2-1) 2.NBT.A Understand place value. (2-ESS1-1) Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. (2-ESS2-2)

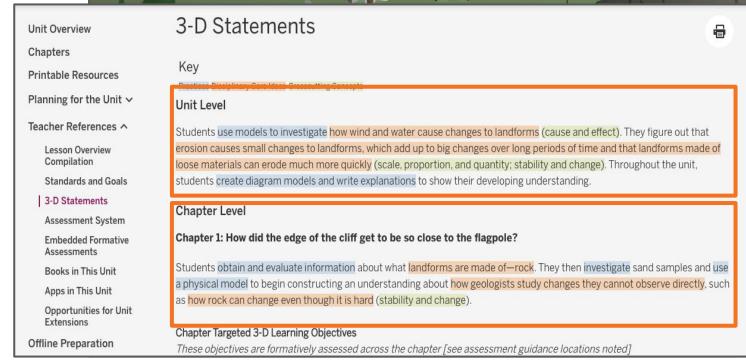
Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers)

and equations with a symbol for the unknown number to represent the problem. (2-ESS2-1)

## Navigate to the Unit Landing Page: Changing Landforms



Review the Standard and Goals and the 3-D Statements



## 3D Statements: Changing Landforms

Key

Practices Disciplinary Core Ideas Crosscutting Concepts

#### **Unit Level**

Students use models to investigate how wind and water cause changes to landforms (cause and effect). They figure out that erosion causes small changes to landforms, which add up to big changes over long periods of time and that

#### **Chapter Level**

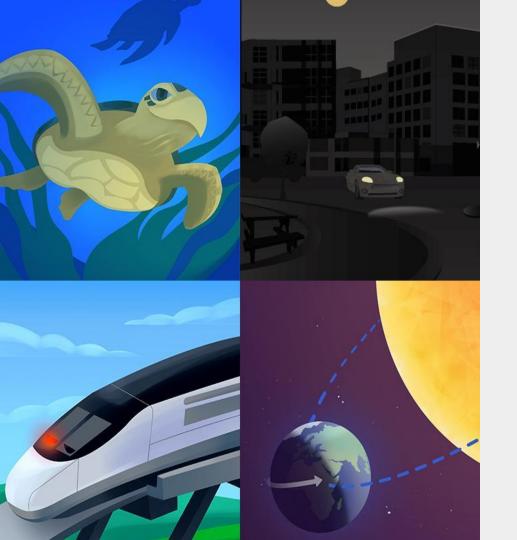
Chapter 1: How did the edge of the cliff get to be so close to the flagpole?

Students obtain and evaluate information about what landforms are made of—rock. They then investigate sand

#### **Lesson Level**

#### Lesson 1.1: Pre-Unit Assessment

Students write initial explanations about how landforms change (cause and effect) and obtain and evaluate information about different types of landforms from the book *Landform Postcards*.



## Plan for the day: Part 1

- Introduction and Framing
- NGSS & 3D Learning
- Phenomenon-based Instruction
- Unit Internalization
- Additional Resources
- Closing

#### Next Generation Science Standards

Phenomenon-based learning and teaching

A scientific phenomenon is an **observable event** that occurs in the universe that we can use science ideas to explain or predict.

## Comparing topics and phenomena

Topic-based	Phenomenon-based
Chemical reactions	There's a reddish-brown substance in a town's tap water.

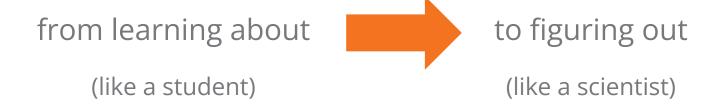
## Next Generation Science Standards

#### How might learning be different?

Topic-based	Phenomenon-based
Chemical reactions	There's a reddish-brown substance in a town's tap water.
Electric circuits	A flashlight won't turn on, even though it used to work.
Natural selection	A population of newts has become more poisonous over time.

## Comparing topics and phenomena

A shift in science instruction

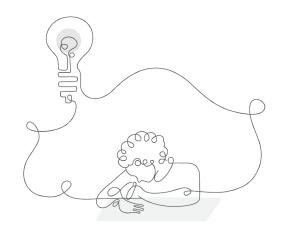


## Previewing the unit

#### Introducing the phenomenon

Amplify Science units are designed around complex phenomena that drives student learning through the unit.

Pay attention to the phenomenon, or observable event, students will figure out in your unit.



We're about to begin a new science unit.

We'll be learning about why the **shape** of **land** can be **different** than it used to be.

Lesson 1.1: Pre-Unit Assessment

Activity 1



This is **Oceanside Recreation Center,** where students come to learn about leadership and teamwork. The center is on a beautiful **cliff** next to the **ocean**.

Lesson 1.1: Pre-Unit Assessment

Activity 1





When they are at the center, students get to go on hikes and observe nature.

Sometimes they get to stay for a week and sleep in cabins overnight.

Lesson 1.1: Pre-Unit Assessment Activity 1



When school lets out, kids can go to **summer camp** at Oceanside Recreation Center.

They do team-building activities and learn how to be better leaders.

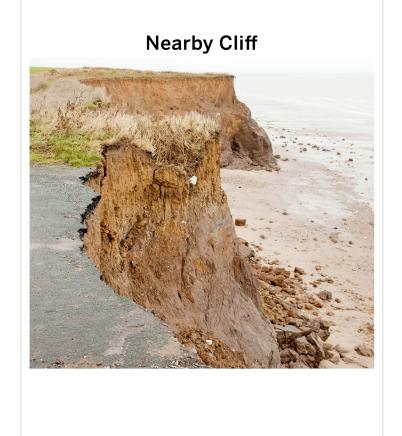


# Has anyone been to summer camp or to a place like Oceanside Recreation Center?

One place I have been to is \_\_\_\_\_\_.

Lesson 1.1: Pre-Unit Assessment

Activity 1



Director Higgins at Oceanside found out that a nearby cliff **collapsed.** 

He is worried this might happen to the recreation center's cliff, putting visitors at risk. After researching the recreation center's cliff, Director Higgins found some important information.

He found that the edge of the cliff is closer to the flagpole than it used to be.

# A long time ago Now 1 meter 2 meters

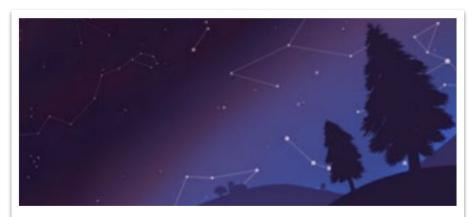
Director Higgins has hired us as **geologists** to help decide whether the recreation center's cliff is safe.

As geologists, our role is to help Director Higgins decide if he needs to close the recreation center because visitors are in danger.

### **Amplify Science**

#### Anchoring phenomenon

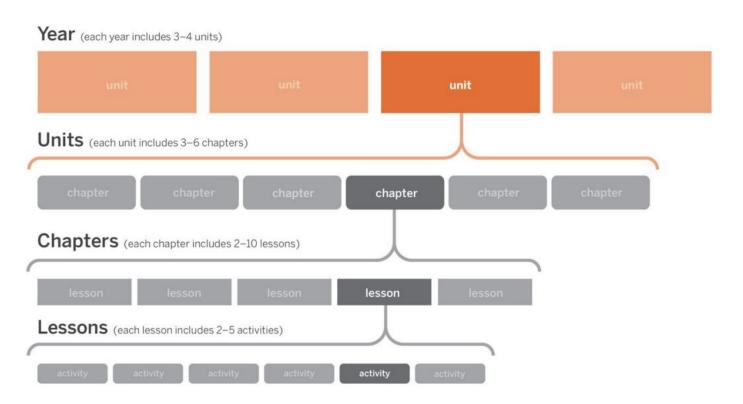
- Complex and rich
- Drives learning through a whole unit
- Specific and observable
- Relatable at students' developmental level







## K-5 Navigation structure



#### Let's Go Live!



**Unit Overview** 

Chapters

Printable Resources

Planning for the Unit >

Teacher References ∨

Offline Preparation

#### **Unit Overview**

#### What's in This Unit?

In the Changing Landforms: The Disappearing Cliff unit, students use models to investigate how wind and water can cause changes to landforms. They learn that landforms made of solid rock undergo small-scale changes, and that over time, these changes add up to big changes. The unit begins with an introduction to changes to the cliffs by Oceanside Recreation Center, which serves as the anchor phenomenon for the unit. A nearby cliff has collapsed, and historical information shows that where the recreation center is situated appears to be receding. Students take on the role of geologists in order to help the Oceanside

Read more >

#### Chapters

Chapter 1: How did the edge of the cliff get to be so close to the flagpole? ①



LESSON 1.1 Pre-Unit Assessment



Observations About Landforms

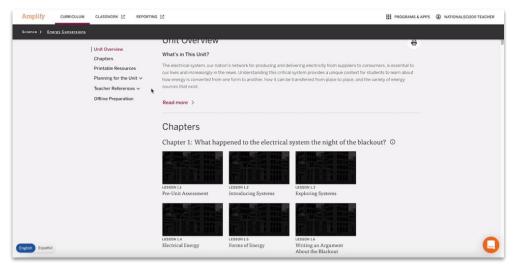


CESSON 1.3
Observing Sand Samples

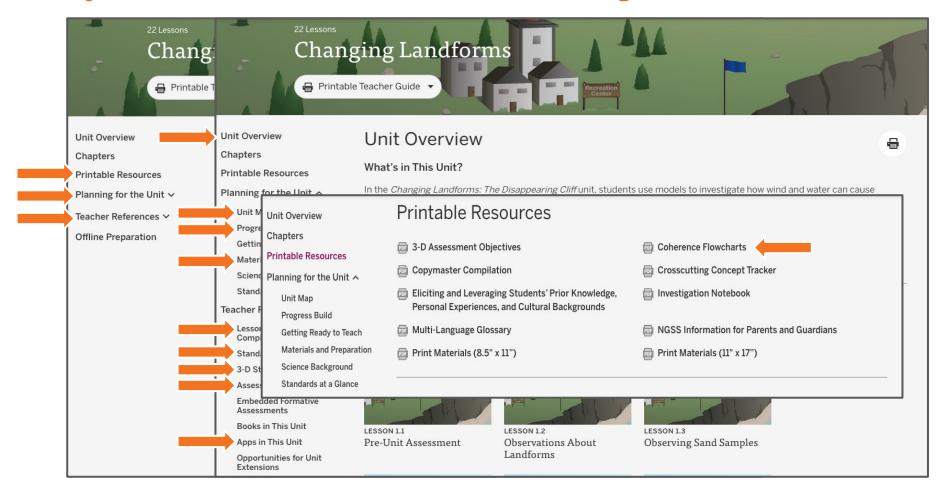
#### Unit Level resources

Collection of resources to support planning and day-to-day instruction in the unit:

- Printable Resources
- "Planning for the Unit" documents
- Teacher References



## **Key Unit Documents for Unit Planning**



#### **Core Unit Planning & Internalization**

Line Tida		
Unit Title:	1	,
	-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	Student Role:
your unit?	3
Unit Question:	Relationship between the Unit Phenomenon and Unit Question:
4	5
By the end of the unit, students figure out	
	6
How do students engage with three-dimensional learning to figure out the p	henomenon/real-world problem in your unit?
	7

#### **Unit Guide resources:**

- Unit Overview
- Unit Map
- Coherence Flowchart

#### **Unit Guide resources:**

- Lesson Overview Compilation
- Unit Overview

#### **Unit Guide resources:**

• Unit Map

#### **Unit Guide resources:**

• 3D Statements at the Unit Level

#### **Core Unit Planning & Internalization**

Unit Title:

#### Changing Landforms

#### 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?

A nearby cliff collapsed and the director of the Oceanside Recreation Center is worried that erosion on the center's ocean cliff might have safety implications for the visitors. Student Role:

Geologist

Unit Question:

Why is the shape of the land different than it used to be?

Relationship between the Unit Phenomenon and Unit Question:

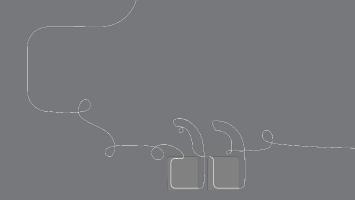
Students figure out how land formation changes by investigating the erosion on the center's cliff.

By the end of the unit, students figure out...

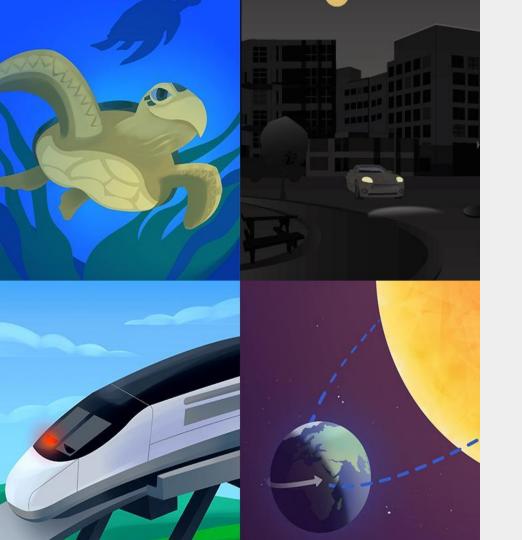
Students figure out how the recreation center's cliff changed by erosion without the director noticing?

How do students engage with three-dimensional learning to figure out the phenomenon/real-world problem in your unit?

Students use models to investigate how wind and water cause changes to landforms (cause and effect). They figure out that erosion causes small changes to landforms, which add up to big changes over long periods of time and that landforms made of loose materials can erode much more quickly (scale, proportion, and quantity; stability and chang). Throughout the unit students create diagram models and write explanations to show their developing understanding.



## Questions?



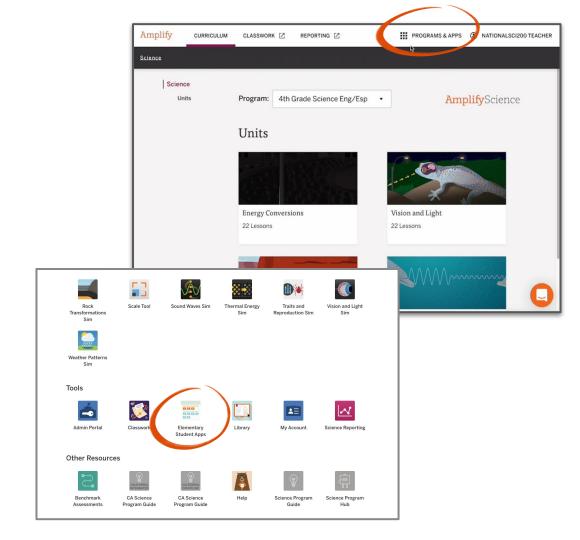
## Plan for the day: Part 1

- Introduction and Framing
- NGSS & 3D Learning
- Phenomenon-based Instruction
- Unit Internalization
- Additional Resources
- Closing

## Student Apps Page

Click on Programs & Apps (waffle)

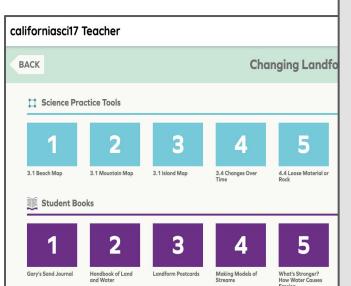
Scroll down and click on the "Elementary Studnet Apps" icon



## Student Apps page



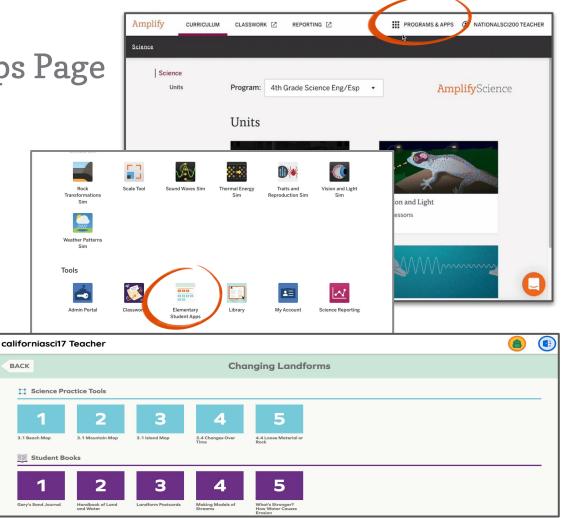






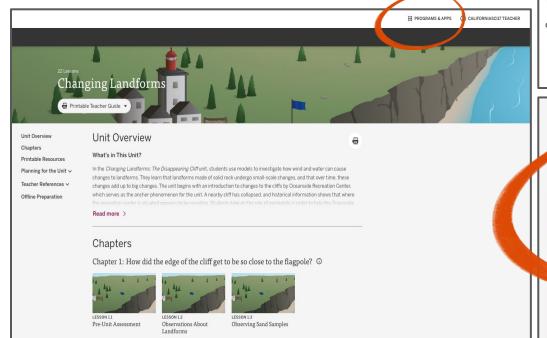
## Explore the Student Apps Page

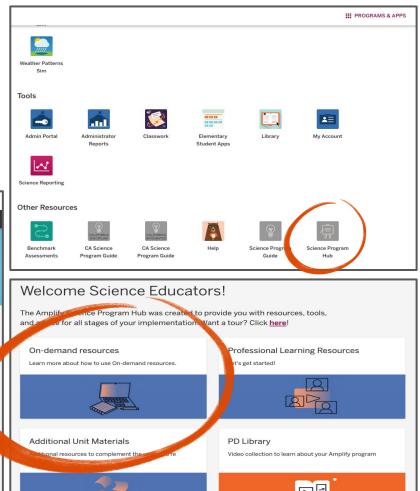
Familiarize yourself with the digital books on the Student Apps Page.



### Program Hub

Use the Amplify Science Program Hub to find useful resources for implementing Amplify Science, including unit overview videos and planning tools.

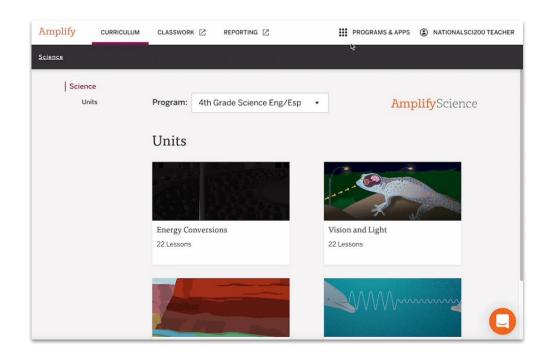




## Explore the Program Hub

Familiarize yourself with the Program Hub.

Be ready to share one resource you've found that you'll use while planning and teaching.



## Additional resources

## Welcome, caregivers!

We hope you enjoy learning more about Amplify Science and what students are learning in science this year.

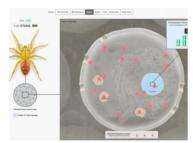
#### Para acceder a este sitio en español haga clic aquí.

Amplify welcomes you and your learner to the Science program for the new school year. We are very excited to provide you with exceptional learning opportunities through Science. Below are resources and helpful guides for enabling your student to have the most productive experience with our platform throughout the year.











## LAUSD Micrositehttps://amplify.com/lausd-science

## Welcome to Amplify Science!

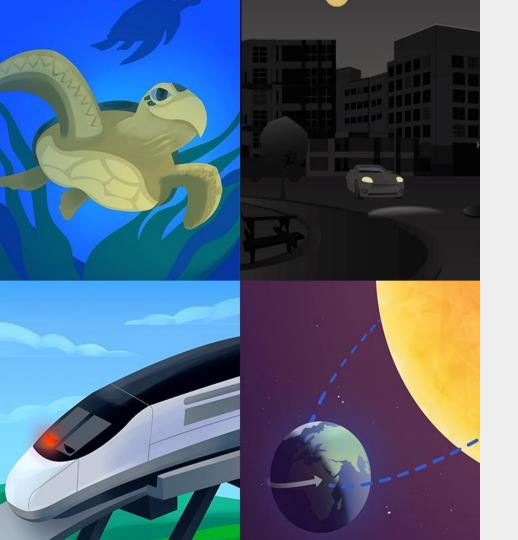
This site contains supporting resources designed for the LAUSD Amplify Science adoption for grades TK-8.

- Access the Amplify Science Program Hub (To help orient you to the new design, watch this video and view this reference guide.)
- Find out more about Amplify Science@Home
- Share the Caregiver Hub (Eng/Span) with your families
- For LAUSD ES Teachers- Amplify Science & Benchmark Advance Crosswalk
- Instructional guidance for a Responsive Relaunch of Amplify Science in 21-22

Click the button below to preview the digital Teacher's Guide, and check back for exciting updates to this site!







## Plan for the day: Part 1

- Introduction and Framing
- NGSS & 3D Learning
- Phenomenon-based Instruction
- Unit Internalization
- Additional Resources
- Closing

## Overarching goals

- Explain how students engage in phenomenon based and 3D learning to construct an understanding of the science concepts introduced in the unit *Changing Landforms*
- ✓ Internalize the unit and apply your new understanding to plan for the diverse needs of your classroom and students

## Closing reflection

Based on our work in Part 1, share:

Head: something you'll keep in mind

Heart: something you're feeling

Feet: something you're planning to do

## Additional resources and ongoing support

### **Customer Care**

Seek information specific to enrollment and rosters, technical support, materials and kits, and teaching support, weekdays 7AM-10PM EST and weekends 10AM-6PM EST.



help@amplify.com



800-823-1969



Amplify Chat



## Please provide feedback!

### Presenter name:

## Workshop title:

Part 1: Unit 3 Internalization

Part 2: Guided Planning (Planning for a Lesson)

## **Modality:**

Remote

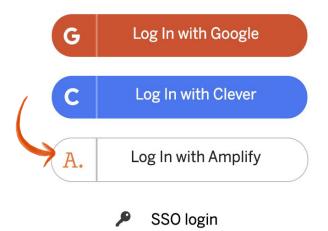
## Welcome to Amplify Science!

## Do Now: Log in through your Schoology account

or use Demo Account

- Go to learning.amplify.com
- Select Log in with Amplify
- 3. If you're already logged in with other Google accounts, click Use another account
- Enter teacher demo account credentials
  - xxxxxxxx@pd.tryamplify.net
  - Password: xxxx
- 5. Explore as we wait to begin

Welcome to **Amplify** 



## **Amplify** Science

Unit Internalization / Guided Planning

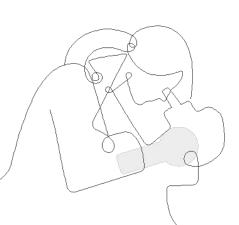
Grade 2 Unit 3: Changing Landforms

Part 2

School/District Name: LAUSD

Date:

Presented by:

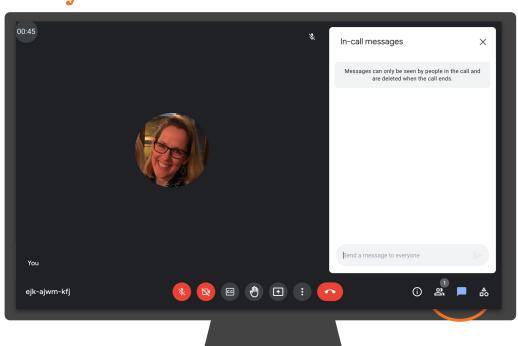




## Ice Breaker!

## Who do we have in the room today?

 Question: Now that we have gone through Part 1, which aspects of Amplify Science do you feel more comfortable with or have a greater understanding of?



## Amplify's Purpose Statement

### Dear teachers,

You do a job that is nearly impossible and utterly essential.

We are in your corner – extending your reach, saving you time, and enhancing your understanding of each student.

Thank you for working with us to craft rigorous and riveting learning experiences for your classroom.

We share your goal of inspiring all students to think deeply, creatively, and for themselves.

Sincerely, Amplify

## Norms: Establishing a culture of learners



Please keep your camera on, if possible.

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

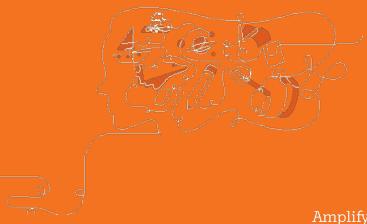


Make sure you have a note-catcher present



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

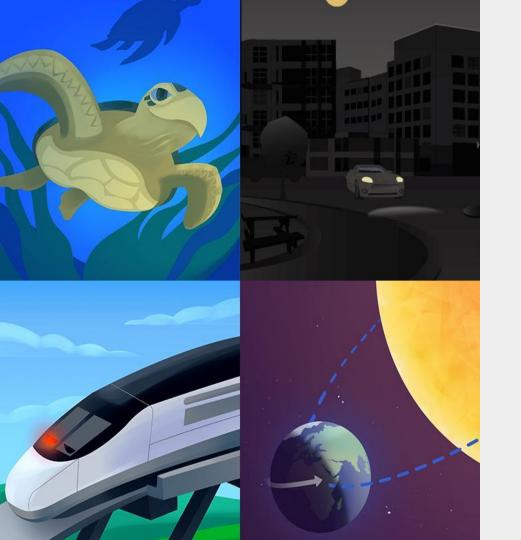
## Part 2: **Guided Planning**



## Overarching goals

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

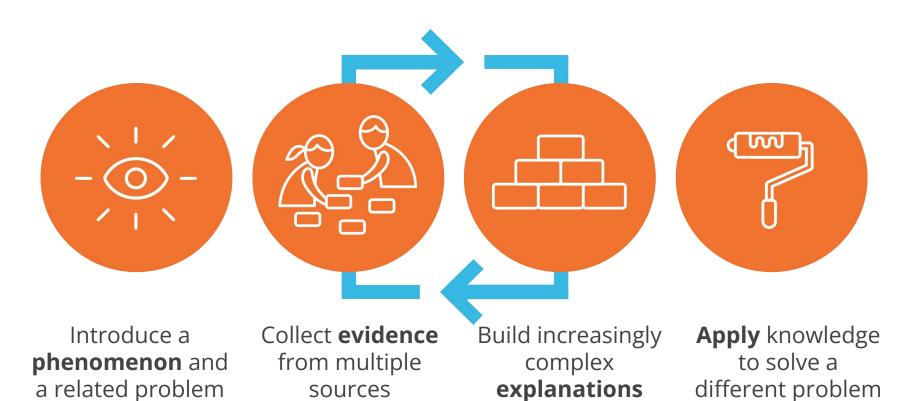
- Describe what teaching and learning look like in Amplify Science.
- Prepare to teach using Amplify Science resources.



## Plan for the day: Part 2

- Teaching and Learning in an Amplify Science Lesson
- Instructional Approach
   Reflection
- Planning a Lesson
- Closing

## **Amplify Science Approach**





## Changing Landforms

Coherent Storylines



How did the edge of the cliff get to be so close to the flagpole?



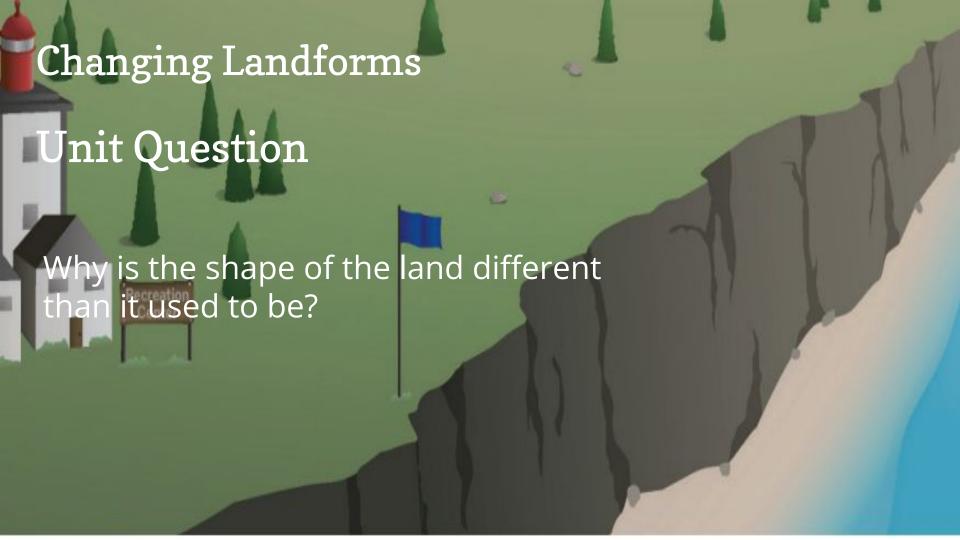
How did the recreation center's cliff change?



How did the recreation center's cliff erode without the director noticing?



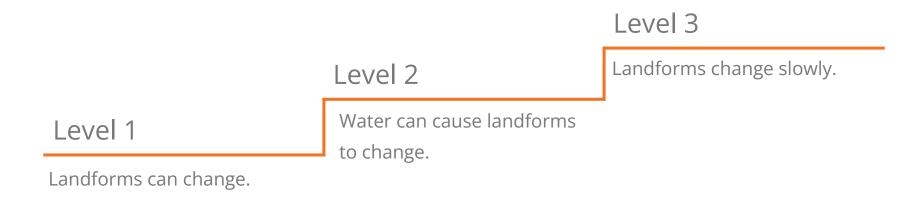
Could the recreation center's cliff erode quickly?





## **Environments and Survival Progress Build**

**Assumed prior knowledge (preconceptions)**: Students are expected to have had some experiences with rock and understand that rock is hard and can be different sizes and shapes.



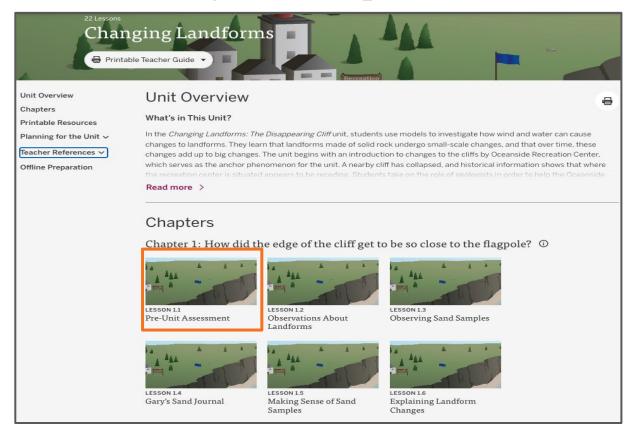
Prior knowledge Deep, causal understanding

K-5 Assessment System 2.6, Act 1.6, Act 3 3.4, Act 2 2 & 3 End-of-Unit Pre-Unit Assessment Assessment Critical Juncture Assessments On the Fly Assessments Self Assessments

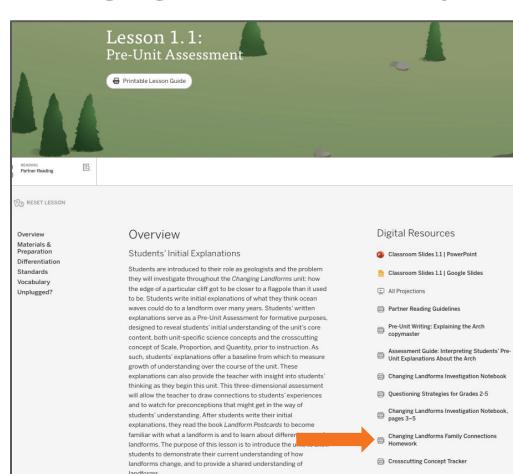
Amplify.

## Beginning the Unit

## The first lesson of every Unit is a pre-unit assessment.



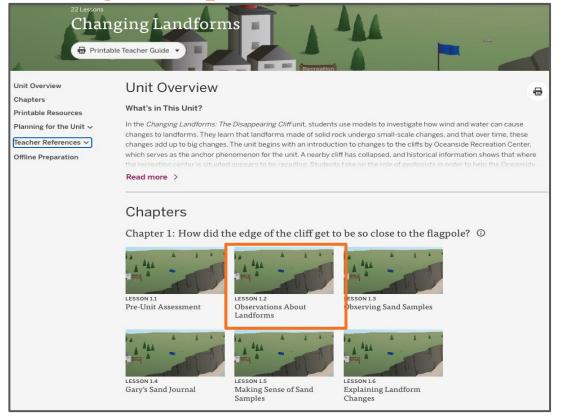
## Changing Landforms Family Connections Homework



	a member of your household and tell them about what we are string in science class.
	n about their experiences, ideas, and questions related to our
-	tes about what you learn.
Summary o	f our investigation you can share:
	class, we are working as geologists to figure out how the edge of
	iff got closer to a coastal recreation center than it used to be.
We will be a than it used	Inswering the question, Why is the shape of the land different to be?
Ask questic	ons such as:
<ul><li>What</li></ul>	does our investigation make you think of?
	u have any memories, stories, expertise, or experiences about thing like what we're investigating?
	have you heard or learned about these topics?
	do you wonder about what we are investigating?
Write notes	here about what you learn:
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## Beginning the Unit

We will be looking at Chapter 1, Lesson 2 for our model lesson.







Activity 1
Activating Prior
Knowledge About
Landforms





## What are some ideas about **landforms** you have from the last lesson?

One idea I have about landforms is \_\_\_\_\_\_

#### What are landforms made of?

What we know	Questions we have

Thinking about ideas and questions you have **before** you start investigating can help make it easier to learn new ideas.

As geologists, we will start by investigating this question:

What are landforms made of?

#### What are landforms made of?

What we know	Questions we have



## What **ideas** do you have about what landforms are made of?

I think landforms are made of \_\_\_\_\_\_.

#### What are landforms made of?

What we know	Questions we have



## What **questions** do you have about what landforms are made of?

A question I have about what landforms are made of is

## What do you wonder about landforms?

I wonder \_\_\_\_\_\_.

What Landforms Are Made Of firections:  Choose a landform to draw.  In the box below, draw the landform and label it.  Below your diagram, explain what you think the landform is made of.	Name:	Date:
. Choose a landform to draw In the box below, draw the landform and label it Below your diagram, explain what you think the landform is made of.		What Landforms Are Made Of
. In the box below, draw the landform and label it Below your diagram, explain what you think the landform is made of.	Directions:	
. Below your diagram, explain what you think the landform is made of.	1. Choose	a landform to draw.
	2. In the bo	ox below, draw the landform and label it.
his landform is made of	3. Below y	our diagram, explain what you think the landform is made of.
his landform is made of		
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his landform is made of		
	This landfo	orm is made of
		·
Changing Landforms—Lesson 1.2	6	Changing Landforms—Lesson 1.2

Turn to page 6 in your notebooks.

We will create scientific drawings called diagrams.

It's important to label diagrams.

lame:	Date:
What L	andforms Are Made Of
virections: . Choose a landform to dra . In the box below, draw the . Below your diagram, expl	
his landform is made of	
nis idilatorimis indde or	
	nging Landforms—Lesson 1.2 of California. All rights reserved. Permission gravited to photocopy for classroom use.



## **Complete** the diagram and the sentence.

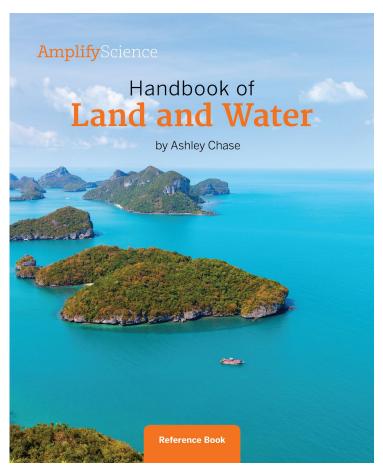


# Activity 2 Previewing Handbook of Land and Water



We just shared ideas about what we think landforms are made of.

I remember in *Landform Postcards* Annie's grandpa said that landforms are made of **rock**. Let's **investigate** this idea using something called a **reference book**.



Reference books are useful places to find information.

This reference book will help us investigate whether **landforms** are made of **rock**.

### **Contents**

Earth's Surface	
What Does It Look Like on a Map?	5
Landforms and Bodies of Water	10
Beaches	1:
Caves	15
Islands	19
Lakes and Ponds	23
Mountains	27
Ocean	3
Rivers and Streams	35
Valleys and Canyons	39
Waterfalls	43
Glossary	47
Index	48

Turn to page 3.

The **table of contents** lists landforms and bodies of water.

### Landforms and Bodies of Water

Scientists who study Earth's **surface** are called **geologists**. Earth's surface may seem **stable**, but it is actually changing all the time. The **landforms** and bodies of water on Earth's surface are always changing. Mostly these changes happen slowly, but sometimes they happen fast. The rest of this book shows examples of landforms and bodies of water.

### Landforms









page 11

page 39

#### **Bodies of Water**









page 23

page 35

page 43

10

Turn to page 10. Let's read the text together.



What **bodies of water** can we read about?

We can read about \_\_\_\_\_

Do you recognize any of these **landforms?** 



# Activity 3 Gathering Evidence from the Book



We'll use the images in *Handbook of Land and Water* to make **observations** about whether **landforms** are made of **rock**.

When scientists make observations, they use any of their five **senses** to gather information. We will use our sense of **sight** to make observations of the images in the book.

# Vocabulary observation

something you notice using any of the five senses

Name:	Date:

### Observations of Landforms

#### Directions:

- Choose at least two landforms to read about in Handbook of Land and Water.
- 2. In the "Landform" column of the table below, record the names of the landforms.
- 3. In the "Observations" column, record observations that help you figure out whether landforms are made of rock.

### Idea: Landforms are made of rock.

Landform	Observations

Changing Landforms—Lesson 1.2

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7

Turn to page 7 in your notebooks.

We'll make **observations** of the images in the book that can be used as **evidence** to support the idea that landforms are made of rock.

Lesson 1.2: Observations About Landforms

Activity 3

### **Caves**

Caves are **landforms**, but they are not on Earth's **surface**. Caves are found underground! Caves are underground openings with walls of rock. Some caves have big spaces. Others are just narrow tunnels. Rocks in caves often have surprising shapes.









Let's look at pages 15–18 in *Handbook* of Land and Water.

When I look at the cave images, I observe rock walls, rock on the bottom of caves, and fallen rocks.

15

Name:	Date:

### **Observations of Landforms**

#### Directions:

- Choose at least two landforms to read about in *Handbook of Land and Water*
- 2. In the "Landform" column of the table below, record the names of the landforms.
- 3. In the "Observations" column, record observations that help you figure out whether landforms are made of rock.

### Idea: Landforms are made of rock.

Landform	Observations
cave	rock walls, rock on bottom of the cave, fallen rock

Changing Landforms—Lesson 1.2

7

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Turn back to page 7 in your notebooks.

Let's **record** our cave observations.

Lesson 1.2: Observations About Landforms

Activity 3

Name:	Date:

### **Observations of Landforms**

#### Directions:

- Choose at least two landforms to read about in *Handbook of Land and Water*
- 2. In the "Landform" column of the table below, record the names of the landforms.
- 3. In the "Observations" column, record observations that help you figure out whether landforms are made of rock.

### Idea: Landforms are made of rock.

Landform	Observations

Changing Landforms—Lesson 1.2

7

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Choose at least two other landforms and then read and record observations about them.

Name:	Date:

### **Observations of Landforms**

#### Directions:

- Choose at least two landforms to read about in *Handbook of Land and Water*
- 2. In the "Landform" column of the table below, record the names of the landforms.
- 3. In the "Observations" column, record observations that help you figure out whether landforms are made of rock.

### Idea: Landforms are made of rock.

Landform	Observations

Changing Landforms—Lesson 1.2
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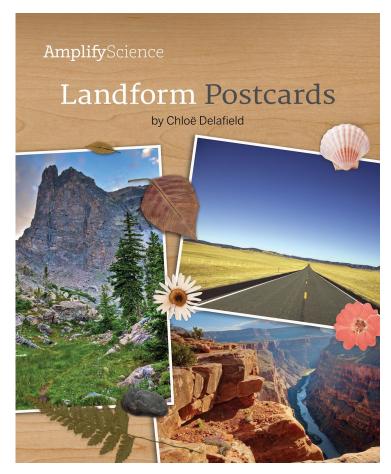
# What were some of your observations of landforms from the images in the book?

One observation of landforms from the book I have is \_\_\_\_\_.



Based on our **observations** of landforms in Handbook of Land and Water, do we have **evidence** that supports the idea that **landforms** are made of **rock?** 

One evidence we have is \_\_\_\_\_\_.



In Landform Postcards, Annie's grandpa said that landforms are made of rock. Let's see if this book gives more information about what landforms are made of.

Lesson 1.2: Observations About Landforms

Activity 3

### **Plains**

Dear Grandpa,

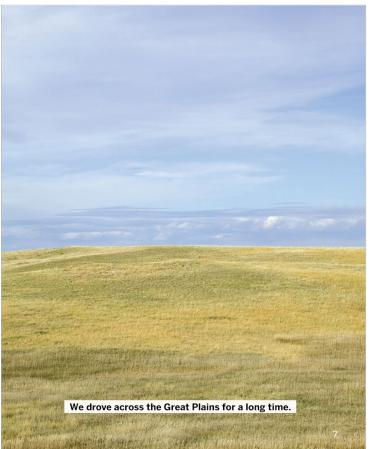
Pretty soon after we left the city, everything looked different. The land was flat all around us for miles. Some people might think it was boring, but not me! I knew that even the flat plain is a landform. I remembered that landforms are made of rock. I pictured rock under the grass. That was neat to think about.



Grandpa 1745 Hillvale St. Madison, VVI 53705

Love, Annie





### **Plains**

Dear Grandpa,

Pretty soon after we left the city, everything looked different. The land was flat all around us for miles. Some people might think it was boring, but not me! I knew that even the flat plain is a landform. I remembered that landforms are made of rock. I pictured rock under the grass. That was neat to think about.



Grandpa 1745 Hillvale St. Madison, VVI 53705

Love, Annie





# Based on what we just read, what are **plains** made of?

Based on what we read, lains are made of

What **information** in the text supports your ideas?

The information that supports my idea is \_\_\_\_\_

Lesson 1.2: Observations About Landforms

Activity 3

### Mesas

### Dear Grandpa,

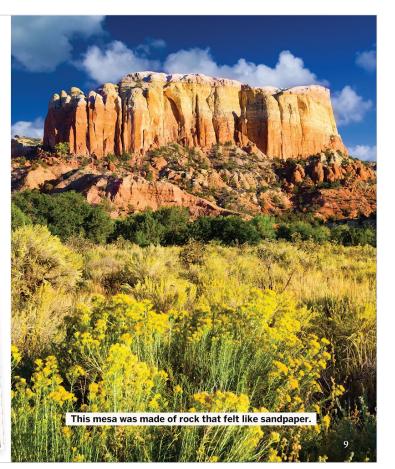
I learned that "mesa" means "table" in Spanish. That makes sense. A mesa is a landform that is flat on top like a table. Here in the Southwest the mesas are made out of red, orange, and yellow rock. This is what I picture Mars looks like!



Grandpa 1745 Hillvale St. Madison, VVI 53705

Love, Annie





### Mesas

Dear Grandpa,

I learned that "mesa" means "table" in Spanish. That makes sense. A mesa is a landform that is flat on top like a table. Here in the Southwest the mesas are made out of red, orange, and yellow rock. This is what I picture Mars looks like!



Grandpa 1745 Hillvale St. Madison, VVI 53705

Love, Annie





# Based on what we just read, what are **mesas** made of?

Based on what we read, mesas are made of \_\_\_\_\_\_.

# What **information** in the text supports your ideas?

The information that supports my idea is \_\_\_\_\_\_



# Activity 4 Reflecting on Landforms



### What are landforms made of?

What we know	Questions we have



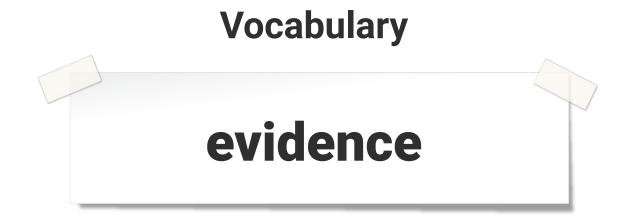
Would anyone like to revise their ideas or add new ideas to answer the question: What are landforms made of?

I would like to revise my ideas. Landforms are made of

I would like to add that landforms are made of \_\_\_\_\_

Our new ideas about what landforms are made of are **evidence**. Evidence is information that supports an answer to a question. The question we are investigating is: **What are landforms made of?** 

Based on our evidence, we can conclude that landforms are made of rock.



information that supports an answer to a question

# **Key Concept**

Landforms are made of rock.

Name:	Date:
1	Revising What Landforms Are Made Of
2. Label the la 3. Below your	elow, draw the same landform that you drew on page 6. ndform. diagram, explain what you think the landform is made of, e evidence you gathered from <i>Handbook of Land and Water</i> .
basea on tr	e evidence you gathered from <i>Hariabook of Laria and Water</i> .
his landform	is made of
_	
3	Changing Landforms—Lesson 1.2

Turn to page 8 in your notebooks.

If scientists gather new evidence that makes them change their ideas, they revise their diagrams to show their new ideas.

lame: Date:	_
Revising What Landforms Are Made Of	
Directions: . In the box below, draw the same landform that you drew on page 6. 2. Label the landform. 3. Below your diagram, explain what you think the landform is made of, based on the evidence you gathered from Handbook of Land and Wate	er.
his landform is made of	_



# **Create** a new diagram using evidence from the books.

# **End of Lesson**



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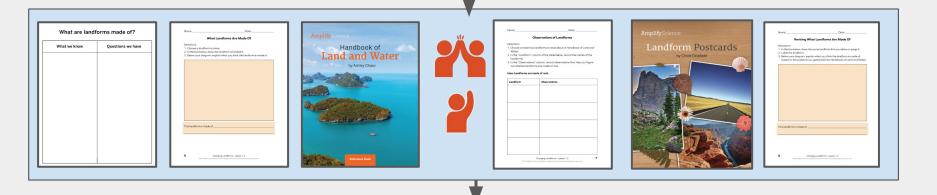
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# Gathering evidence

### Changing Landforms, 1.2

Why is the shape of the land different than it used to be?

### What are landforms made of?



What have students figured out so far?

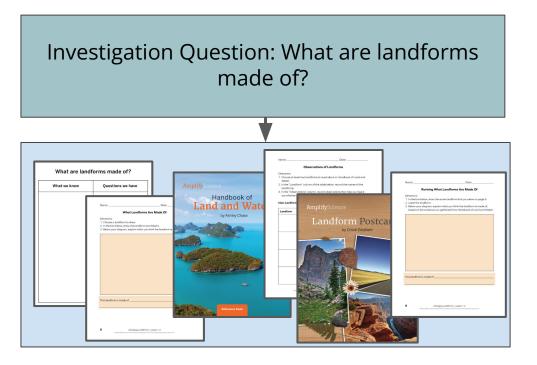
# Evidence sources work together

## Investigating and discussing observations

How do these activities

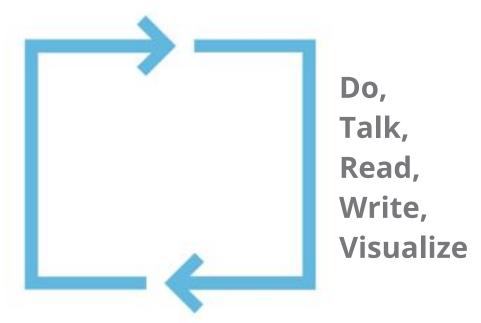
work together to

support understanding of
what we can see in the
sky at different times?



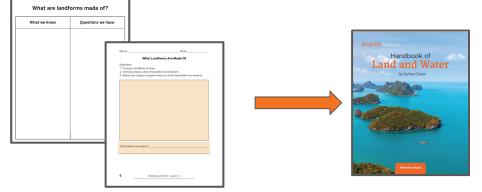
# Multimodal learning

## Gathering evidence over multiple lessons



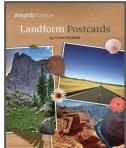
# Evidence sources work together

**Teacher tip:** Every evidence source plays an important role in student learning. Be sure to teach every activity in order!









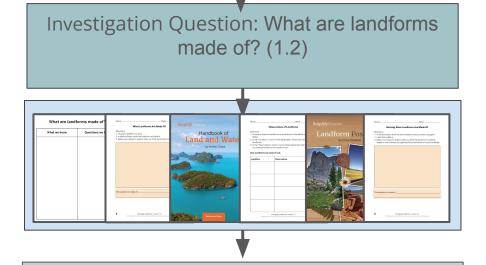


### Coherence Flowchart

## A diagram of student learning

Phenomenon (Chapter Question) **Investigation Question** Multiple sources of evidence **Key Concepts** 

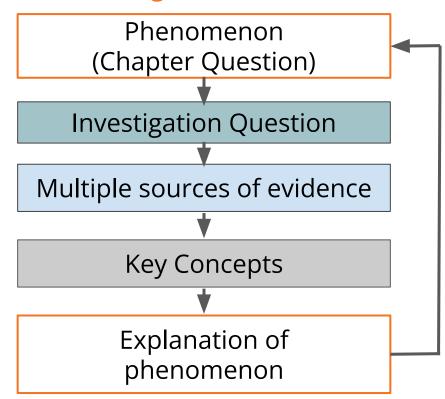
Chapter Question: How did the edge of the cliff get to be so close to the flagpole?



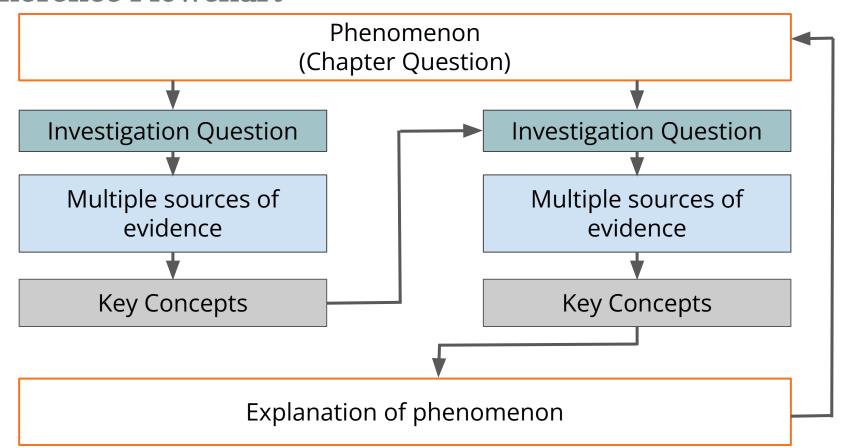
**Students figure out:** Landforms are made of rock. (1.2)

### Coherence Flowchart

## A diagram of student learning



### Coherence Flowchart



Unit Anchor Phenomenon

Problem students work to solve

Chapter-level Anchor Phenomenon Chapter 1 Question

> Investigation Questions

Evidence sources and reflection opportunities

**Key concepts** 

Application of key concepts to problem

Explanation that students can make to answer the Chapter 1 Question

### **Changing Landforms: The Disappearing Cliff**

The cliff where Oceanside Recreation Center is situated appears to be receding. Why is the edge of the ocean cliff closer to the flagpole than it used to be?

The flagpole is closer to the edge of the ocean cliff than it used to be. How did the edge of the cliff get to be so close to the flagpole?

What are landforms made of? (1.2) (Note: See Lesson Overviews for lesson-level Investigative Phenomena)

- · Read Landform Postcards (1.1)
- Discuss and record ideas about landforms on Anticipatory Chart (1.2)
- Observe landforms in Handbook of Land and Water (1.2)
- · Return to Anticipatory Chart and revise ideas (1.2)

· Landforms are made of rock. (1.2)

How do geologists figure out how something changed when they can't observe it changing? (1.3-1.6)
(Note: See Lesson Overviews for lesson-level Investigative

- Observe sand samples and generate questions about sand (1.3)
- Compare sand samples (1.3)

Phenomena)

- Read Gary's Sand Journal (1.4)
- Observe a mystery sand (1.4)
- Use evidence from observations of sand samples as evidence for how the sand got to be the way it is (1.5)
- Write and share explanations about sand samples (1.5)
- Use Hard Candy Model to gather evidence that sand and rock can change shape (1.6)
- Even if geologists can't see a change happening, they can use models to visualize how it may have happened. (1.6)
- · Even though rock is hard, it can change shape. (1.6)

Write an explanation as a class to answer the Chapter 1 Question (1.6)

The shape of the cliff changed when the rock it is made of changed.

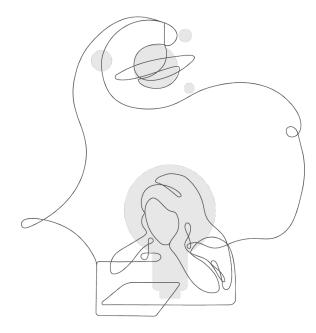
Pg. 14-15

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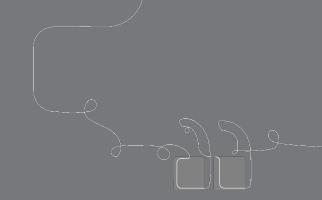
# Explore the Coherence Flowchart

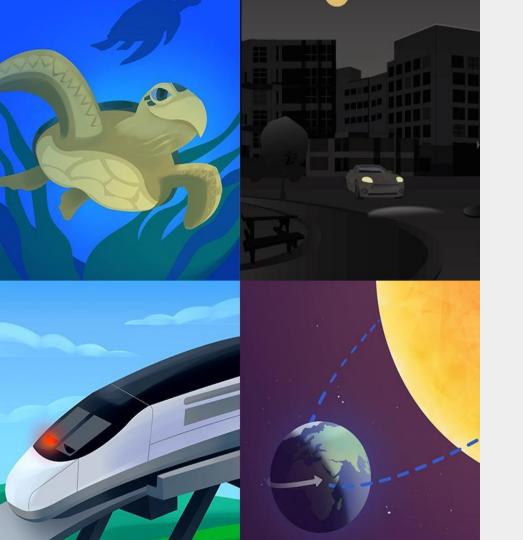
Skim the Chapter 1 Coherence Flowchart of your first unit.

How can the Coherence Flowchart serve you as a planning tool as you begin teaching Amplify Science?



# Questions?

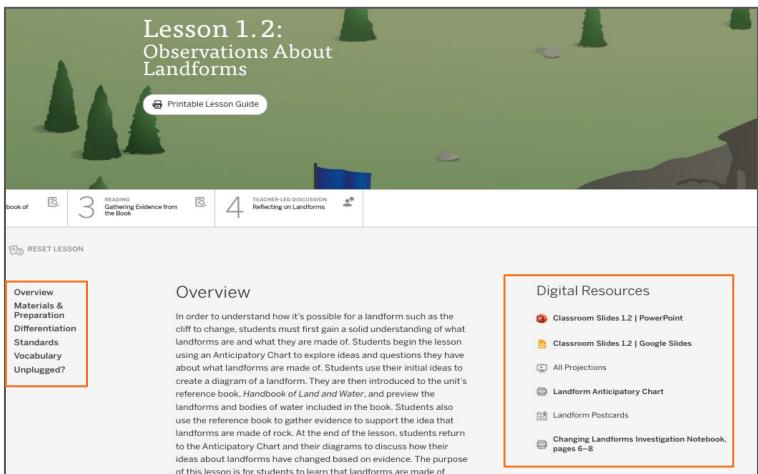




# Plan for the day: Part 2

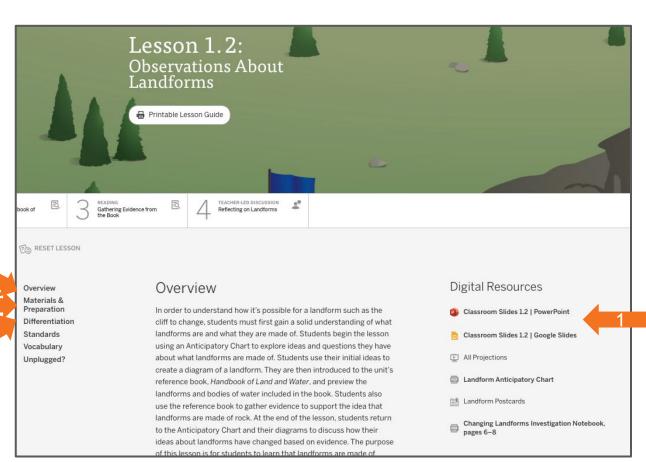
- Teaching and Learning in an Amplify Science Lesson
- Instructional Approach
   Reflection
- Planning a Lesson
- Closing

# Navigate to the Lesson Brief



# 4 Steps for Planning Your Lesson

- Download Classroom
   Slides and review them.
- 2. Read the Overview.
- Review the Materials & Preparation document.
- 4. Read the **Differentiation** document.



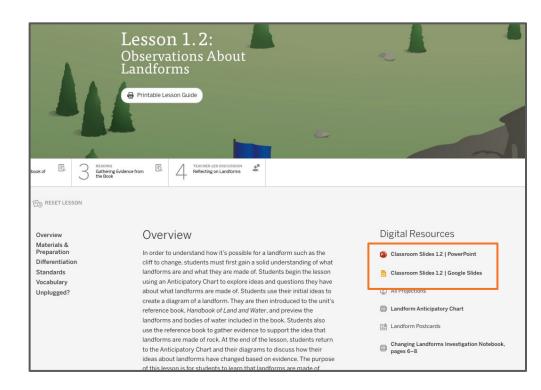
# Preparing to teach

#### Classroom Slides

- Open the Classroom Slides under the Digital Resources.
- 2. Read through the Classroom
  Slides including the **presenter notes** to gain a better
  understanding of the lesson.

#### 3. Consider:

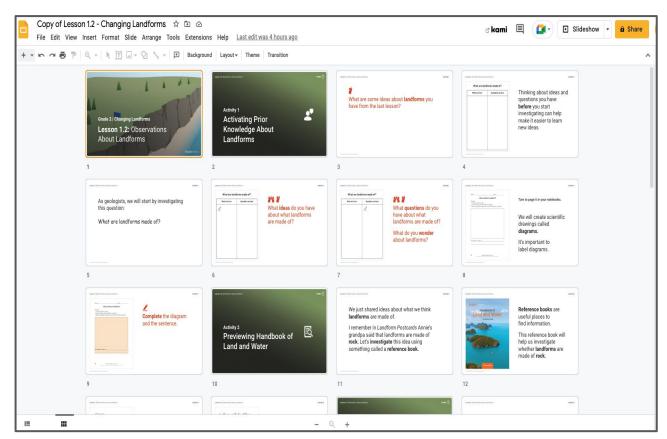
 What features of the Classroom Slides will support you in teaching this lesson?



# Using Classroom Slides as a planning tool

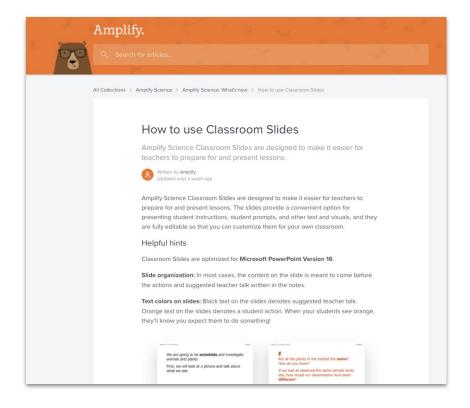
Teacher tip: Classroom Slides are a great visual summary of a lesson. Many teachers download and flip through a lesson's Classroom Slides deck to preview what happens in the lesson.

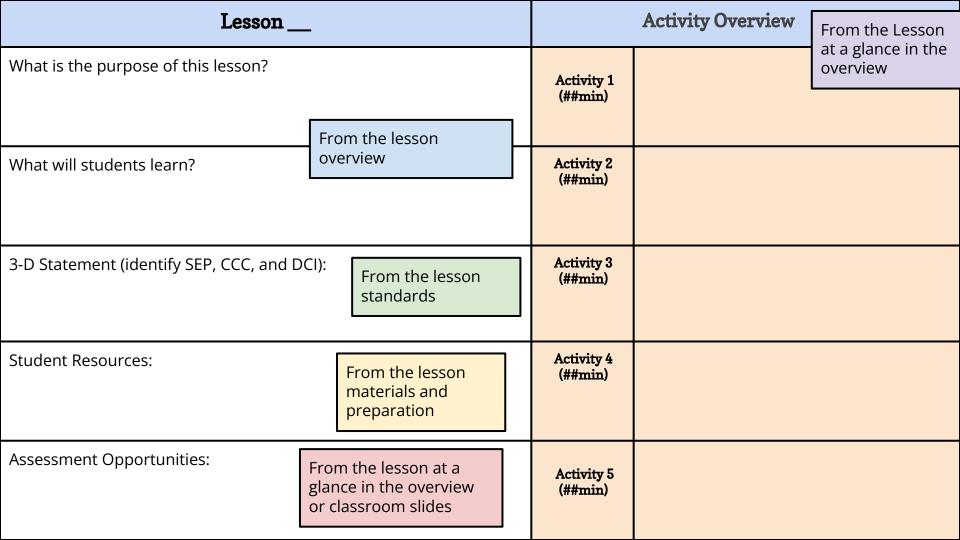
This is a useful first step for preparing to teach the lesson.



### Teaching with Classroom Slides

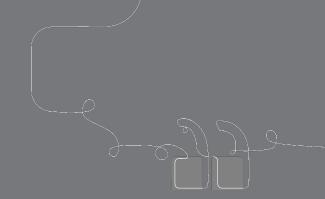
This detailed guide on the Amplify Science Help Site includes tips for teaching with Classroom Slides and information about the different symbols and activity types you'll find in the slide deck.

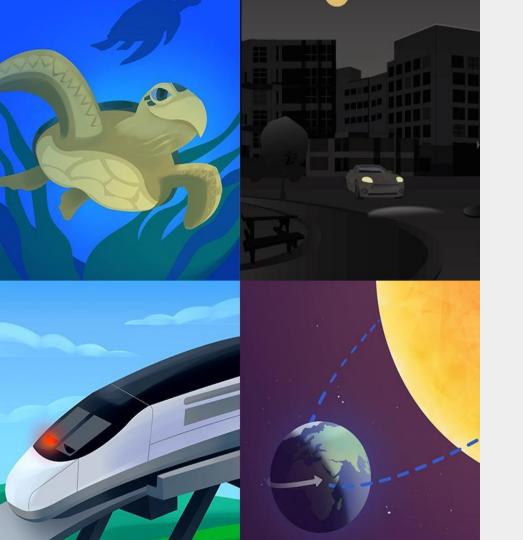




Lesson 1.2		Activity Overview
What is the purpose of this lesson? For students to learn that landforms are made of rock.	Activity 1 (15 min)	Activating Prior Knowledge About Landforms
What will students learn? Landforms are made of rock. Water can be found in the ocean, rivers, lakes, and ponds. Evidence is information that supports an answer to a question. Observations can be used as evidence to answer a question.	Activity 2 (10 min)	Previewing Handbook of Land and Water
<b>3-D Statement (identify SEP, CCC, and DCI):</b> Students obtain and evaluate information from the reference book, <i>Handbook of Land and Water</i> , about bodies of water and landforms. They create diagram models of what landforms are made of and then, based on new evidence they find, students modify their diagrams to show that landforms are made of rock. This prepares them to understand the slow timescale at which landforms change (stability and change).	Activity 3 (20 min)	Gathering Evidence from the Book
<b>Student Resources</b> : Pair of Students: Copy of <i>Handbook of Land and Water</i> , copy of <i>Landform Postcards</i> .	Activity 4 (15 min)	Reflecting on Landforms
Assessment Opportunities: N/A	Activity 5 (##min)	

# Questions?





# Plan for the day: Part 2

- Teaching and Learning in an Amplify Science Lesson
- Instructional Approach Reflection
- Planning a Lesson
- Closing

#### Additional resources

# Welcome, caregivers!

We hope you enjoy learning more about Amplify Science and what students are learning in science this year.

#### Para acceder a este sitio en español haga clic aquí.

Amplify welcomes you and your learner to the Science program for the new school year. We are very excited to







#### **Caregivers**

# LAUSD Micrositehttps://amplify.com/lausd-science

# Welcome to Amplify Science!

This site contains supporting resources designed for the LAUSD Amplify Science adoption for grades TK-8.

- Access the Amplify Science Program Hub (To help orient you to the new design, watch this video and view this reference guide.)
- Find out more about Amplify Science@Home
- Share the Caregiver Hub (Eng/Span) with your families
- For LAUSD ES Teachers- Amplify Science & Benchmark Advance Crosswalk
- Instructional guidance for a Responsive Relaunch of Amplify Science in 21-22

Click the button below to preview the digital Teacher's Guide, and check back for exciting updates to this site!





# Overarching goals

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

- ☐ Describe what teaching and learning look like in Amplify Science.
- Prepare to teach using Amplify Science resources.

# Closing reflection

Based on our work today in Part 2, share:

Head: something you'll keep in mind

Heart: something you're feeling

Feet: something you're planning to do

# Additional resources and ongoing support

#### **Customer Care**

Seek information specific to enrollment and rosters, technical support, materials and kits, and teaching support, weekdays 7AM-10PM EST and weekends 10AM-6PM EST.



help@amplify.com



800-823-1969



Amplify Chat

