

Amplify Science

Navigation Program Essentials / Guided Planning

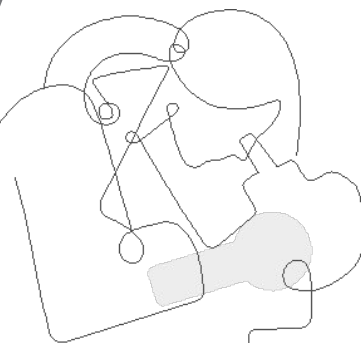
Grade 2, Unit 1: Plants and Animal Relationships

Part 1

School/District Name: LAUSD

Date: December, 2021

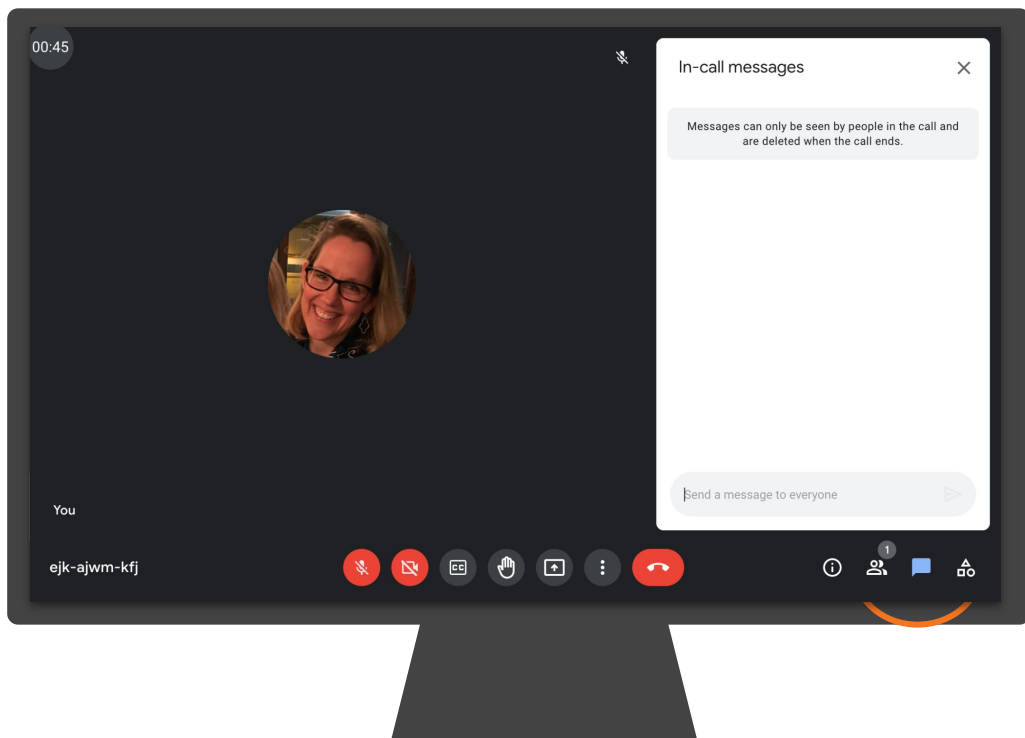
Presented by:



Ice Breaker!

Who do we have in the room today?

- **Question 1:** Which aspects of implementing the Amplify Science standard curriculum are you most excited or hopeful about?
- **Question 2:** What do you feel most hesitant about?



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


- **Take risks:** Ask any questions, provide any answers.
- **Participate:** Share your thinking, participate in discussion and reflection.
- **Be fully present:** Unplug and immerse yourself in the moment.
- **Physical needs:** Stand up, get water, take breaks.

Last year's Amplify apps.



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LOS ANGELES UNIFIED SCHOOL DISTRICT



[mCLASS Student](#)

Content Area: ELA
Grade Level: ES
Content Type: Assessment
Integration Type: App (Left Navigation)
Purchase Type: District
[Getting Started Guide](#)
Other Info: App to be installed for all course members.


Vendor Support Desk:
 P: 800.823.1969
 E: help@amplify.com
 S: amplify.com/support/
Textbook Title(s):
 NA



[mCLASS Assessment](#)

Content Area: ELA
Grade Level: ES
Content Type: Assessment
Integration Type: App (Left Navigation)
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[mCLASS Portal](#)


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COURSES




Course Options




Materials




Updates




Gradebook




Grade Setup




Mastery




Amplify Reading: Teacup




Amplify Science: Elementary



Amplify Science: Middle School




mCLASS Portal



mCLASS Student




This year's app(s).



LOS ANGELES UNIFIED SCHOOL DISTRICT

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LOS ANGELES UNIFIED SCHOOL DISTRICT

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LMS App Center

The LMS App Center provides a catalog of District-approved digital content and learning tools (including digital components of adopted textbooks) that are available for classroom teachers and students to access within the learning management system, Schoology.


For information on District-approval policies and procedures, please visit: udpp.lausd.net.

- To search the full list of digital learning tools, click "**Submit**".
- To search by Publisher Name or Textbook Title, type in a word associated to your adopted publisher, then click "**Submit**".
- To narrow your search with filters such as Content Area, Grade Level, or Content Type, select from the dropdown menu, then click "**Submit**".

To learn more about using the LMS App Center, please refer to the following [video overview](#).

[Search Again](#)


Amplify



Content Area: ELA
Grade Level: ES
Content Type: Supplemental
Integration Type: App (Left Navigation)
Purchase Type: District and School
[Getting Started Guide](#)
Other Info: School licenses required
 mCLASS
 CKLA
 Amplify Reading
 Amplify Science
 Fractions

Vendor Support Desk:
 P: 800.823.1969
 E: help@amplify.com
 S: amplify.com/support/
Textbook Title(s):
 NA

Amplify Classwork



Content Area: ELA
Grade Level: ES
Content Type: Supplemental
Integration Type: App (Left Navigation)
Purchase Type: District and School
[Getting Started Guide](#)
Other Info: School licenses required. This app is for teacher use only (install for Course Admins only)

Vendor Support Desk:
 P: 800.823.1969
 E: help@amplify.com
 S: amplify.com/support/
Textbook Title(s):
 NA

All Amplify Products

Grade Sync for MS Science

Publisher Name: Starts With

Content Area: All

Grade Level: All

Content Type: All

Textbook Title: Starts With

Submit

 mCLASS Educators: To view or make changes to your account go to mclass.amplify.com.

Hi, Terin

Classes

Programs & Licenses

Account Settings

Help Center 



[CKLA Hub](#)



[CKLA Resource Site](#)



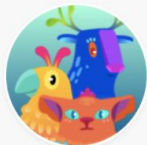
[mCLASS Assessment](#)



[mCLASS Reporting](#)



[Reading 6-8](#)



[Reading K-5](#)



[Science](#)



[Vocabulary](#)



Amplify. on Schoology

2021-2022



Join Amplify Science Schoology Group

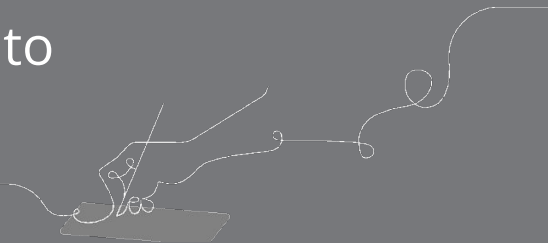
To join Amplify Science Schoology
ES Group: W4PK-W466-63F5B

Part 1

Overarching goals

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

- ❑ Navigate the full Amplify Science standard curriculum.
- ❑ Understand the program's phenomenon-based approach.
- ❑ Apply the program essentials to prepare to teach.





Plan for the day: Part 1

- Introduction and Framing
- Phenomenon-based Instruction
- Program Essentials
- Closing



Plan for the day: Part 1

- **Introduction and Framing**
- Phenomenon-based Instruction
- Program Essentials
- Closing



THE LAWRENCE
HALL OF SCIENCE
UNIVERSITY OF CALIFORNIA, BERKELEY

+

Amplify.

Amplify Science

Next Generation Science Standards



Disciplinary Core Ideas

What students figure out

Science and Engineering Practices

How students figure out the science

Crosscutting Concepts

The habits of thinking that help students organize information

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

Year at a Glance: Grade 2

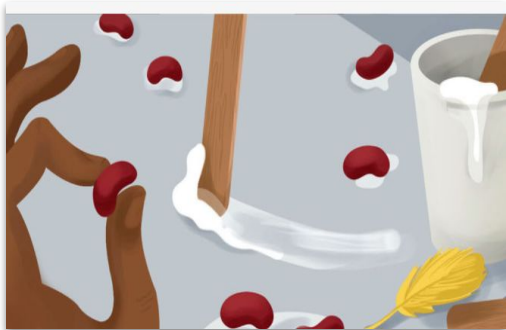


Plants and Animal Relationships

Domain: Life Science

Unit type: Investigation

Student role: Plant scientists

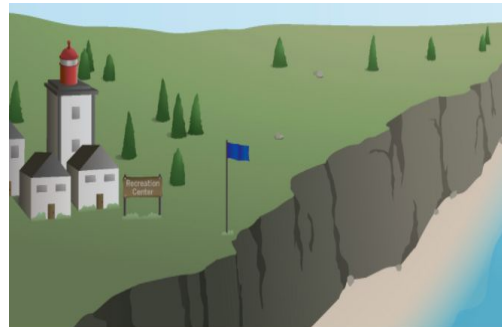


Properties of Matter

Domain: Physical Science

Unit type: Engineering Design

Student role: Glue engineers



Changing Landforms

Domain: Earth and Space Science

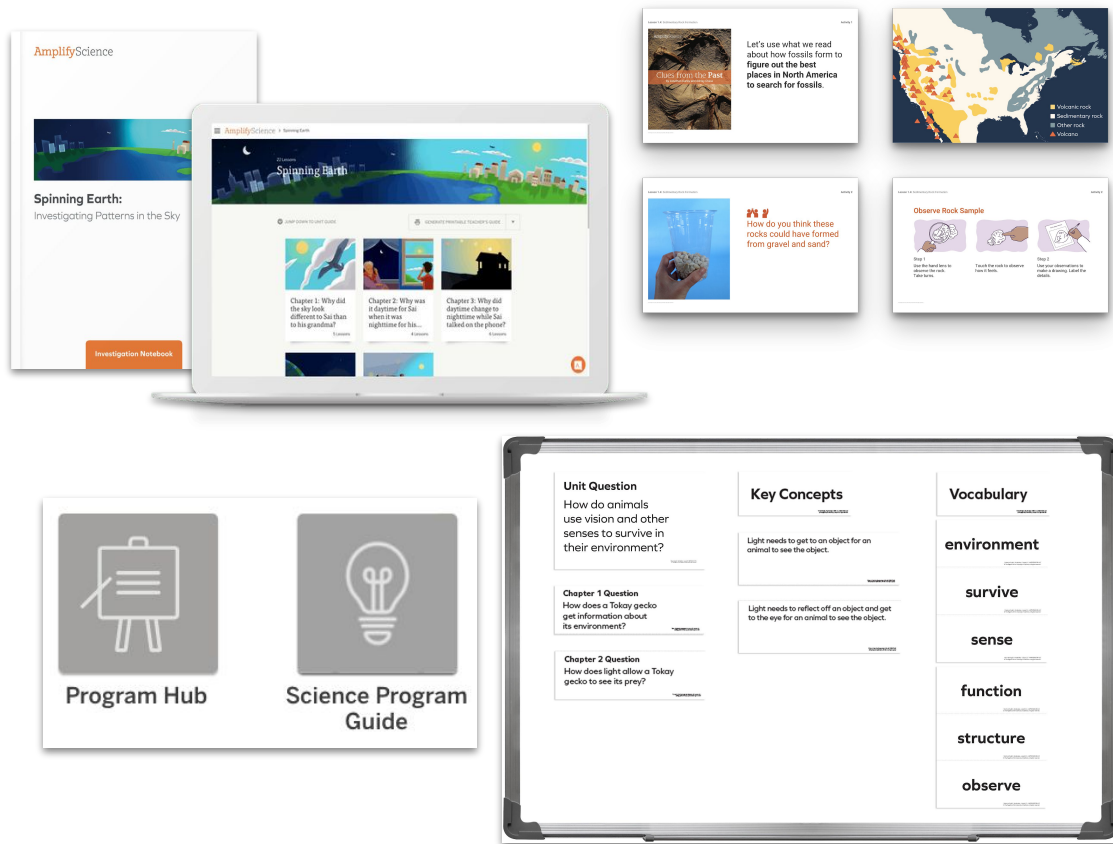
Unit type: Modeling

Student role: Geologists

K-5 Program components

Teacher materials

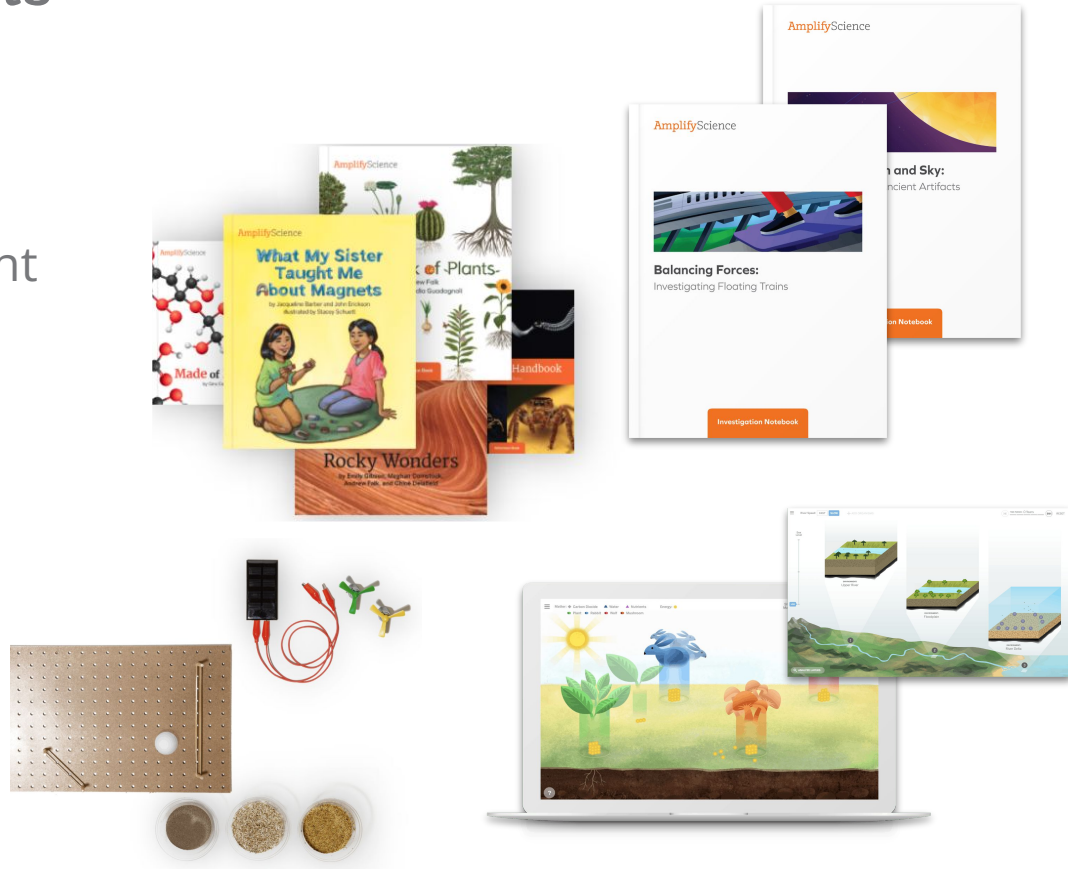
- Teacher's Guide (print and digital)
- Classroom Slides
- Classroom wall materials
- Embedded assessments
- Program Guide
- Program Hub
- Amplify Help Site



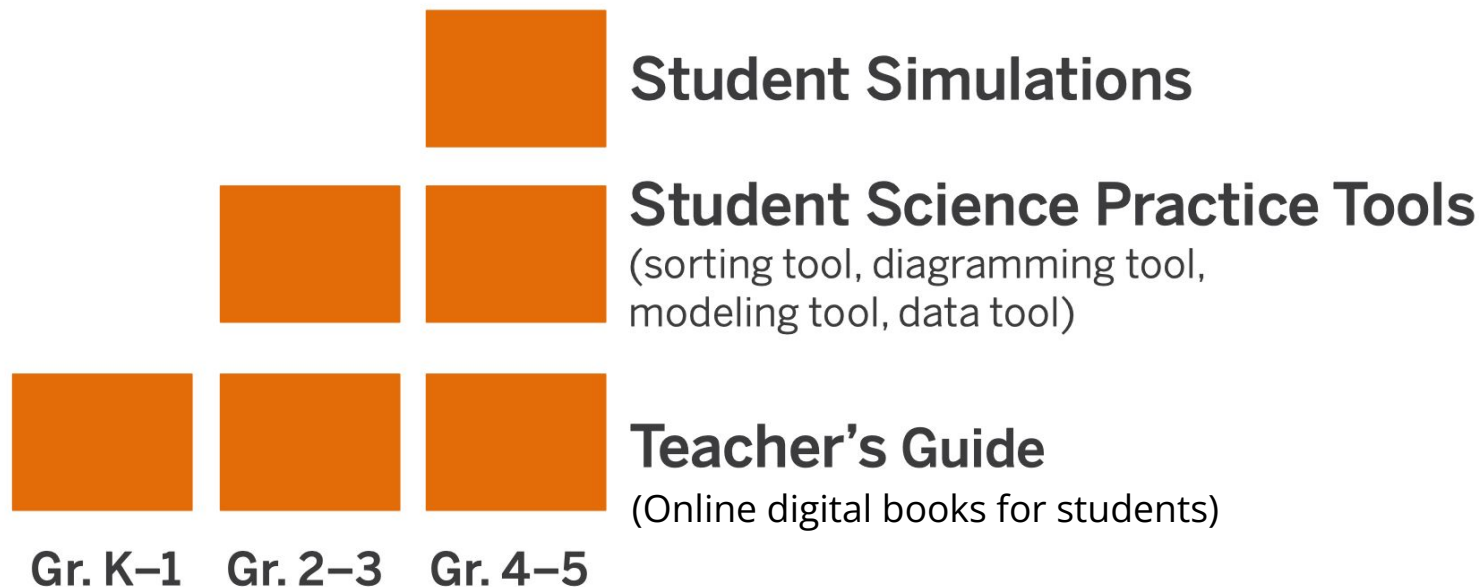
K-5 Program components

Student materials

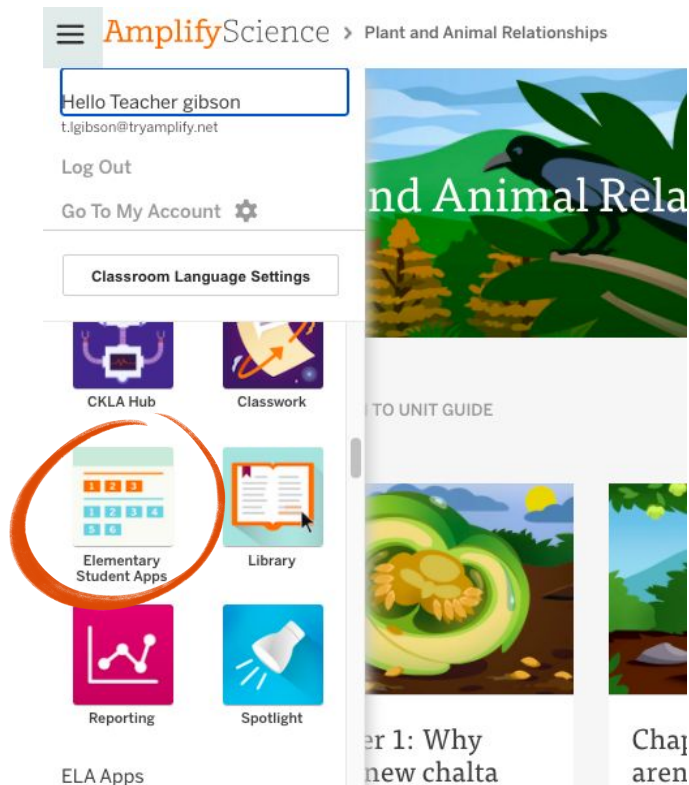
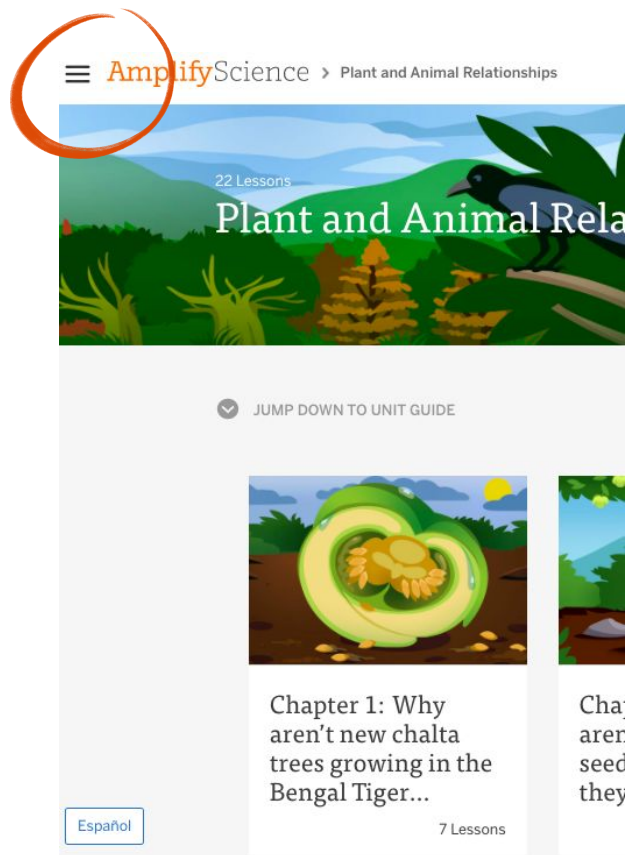
- Hands-on materials
- Investigation Notebooks (print and digital)
- Student books
- Digital Applications



What are the digital components of Amplify Science Elementary?

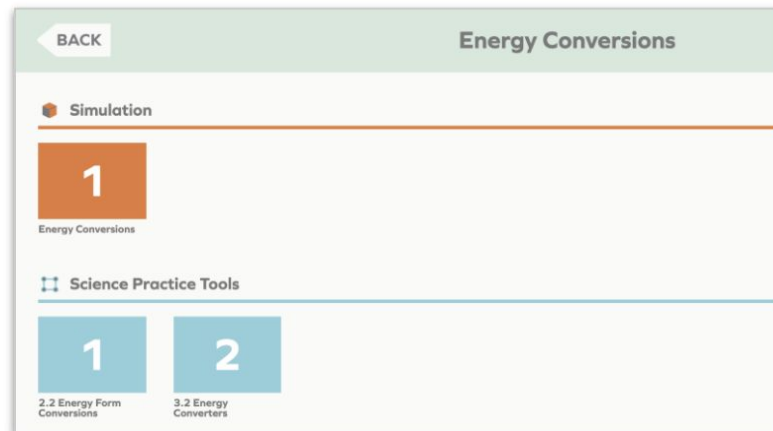
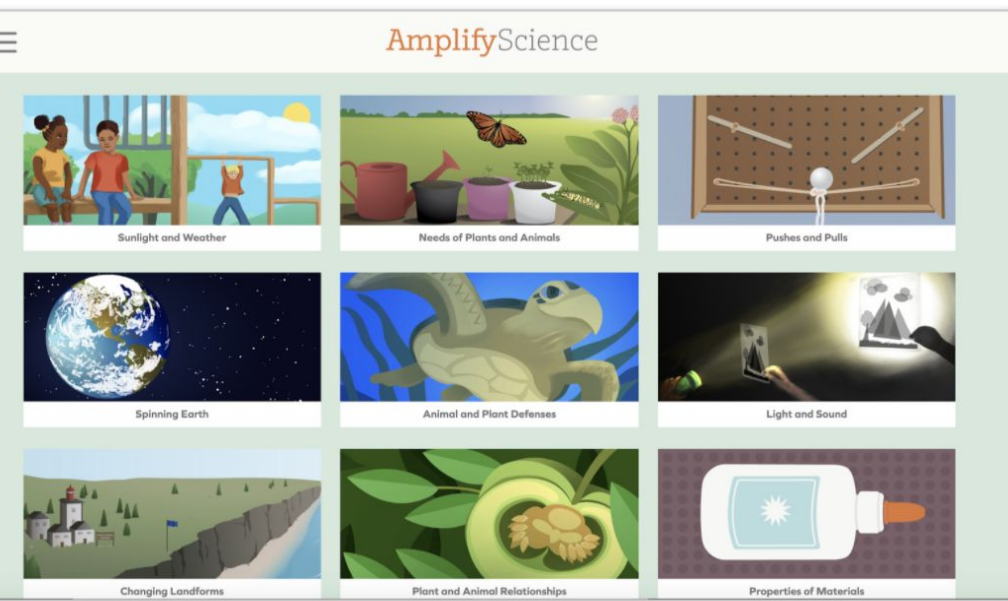


Navigating to the Student Apps page



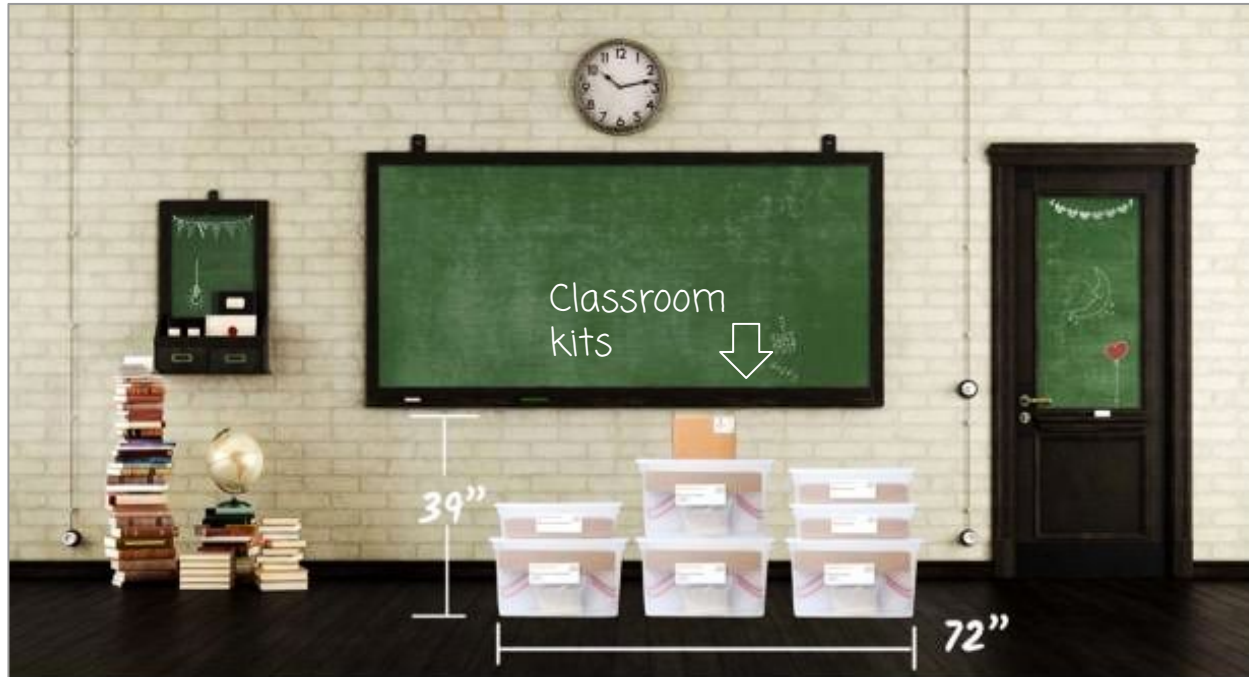
Student apps page

The elementary digital experience for students grades 2-5 is through the student apps page: apps.learning.amplify.com/elementary



K-5 Program components

Classroom kits



Classroom Kits

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

LAUSD Microsite-

<https://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!



Unit 1, K-5 Lesson Prep Videos

Classroom kits

	New! Lesson Prep Videos
Program Introduction	Unit 1
Learn more about Amplify Science	
LAUSD Training Sessions- Reference Materials	Grade K- Needs of Plants and Animals >
 New! Lesson Prep Videos	Grade 1- Animals and Plant Defenses >
Remote Learning Resources	Grade 2- Plant and Animal Relationships >
Onboarding: What to expect	Grade 3- Balancing Forces >
Onboarding videos	Grade 4- Energy Conversions >
Unpacking your first hands-on materials kit	Grade 5- Patterns of Earth and Sky >
Looking for help?	

Classroom Kits

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

Questions?





Plan for the day: Part 1

- Introduction and Framing
- Phenomenon-based Instruction
- Program Essentials
- 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

from learning about
(like a student)



to figuring out
(like a scientist)

Amplify Science Approach

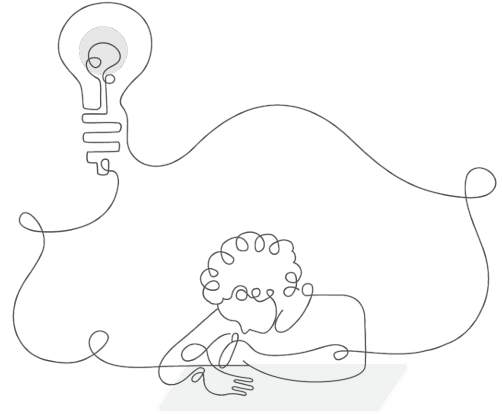


Previewing the unit

Introducing the phenomenon

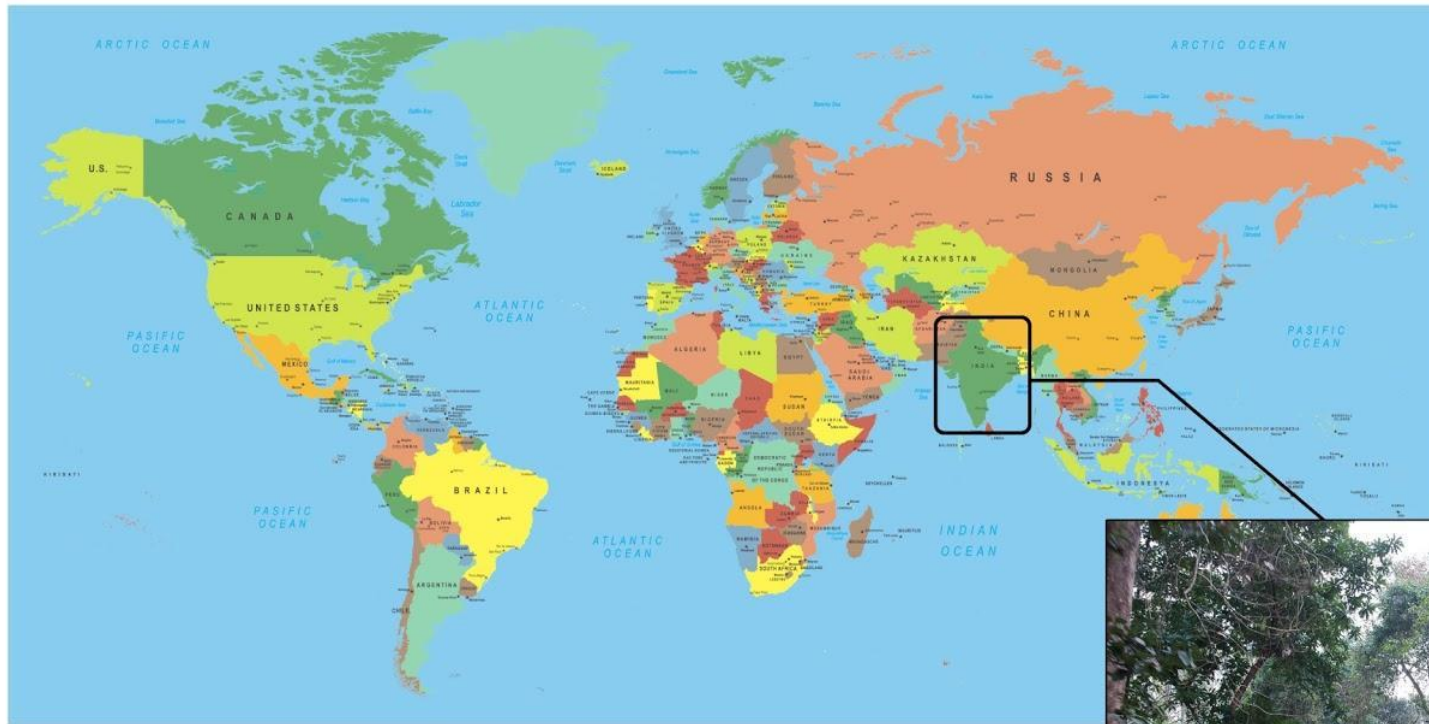
Amplify Science units are designed around complex phenomena that drive student learning through the unit.

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



The unit we're beginning is called *Plant and Animal Relationships: Investigating Systems in a Bengali Forest*.

In this unit, you will **investigate why the chalta trees are not growing in the Bengali Tiger Reserve**.



Broadleaf Forest

Bengal Tiger Reserve



The Bengal Tiger Reserve is a section of the forest where tigers are protected. Lots of different kinds of plants and animals live in the Bengal Tiger Reserve.



The lead scientist at the Reserve thinks something is **changing** with the trees. We are going to help figure out **what is happening** with the trees that live in the Reserve.



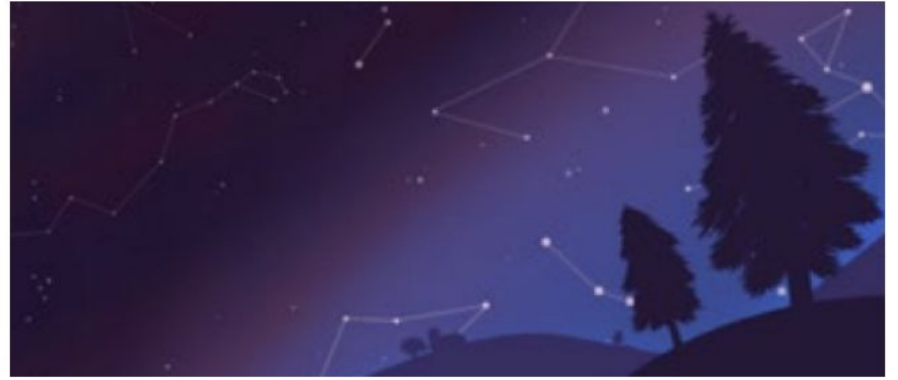
In this unit, we will be **plant scientists**.

Plant scientists try to answer questions about plants in the places where they live.

Amplify Science

Anchoring phenomenon

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





Plan for the day: Part 1

- Introduction and Framing
- Phenomenon-based Instruction
- Program Essentials
- Closing

Unit

↓

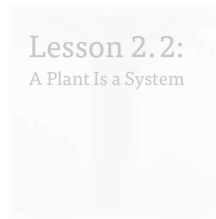
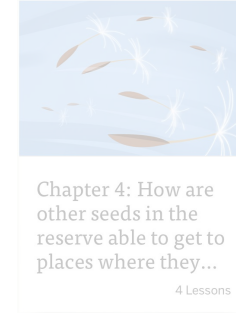
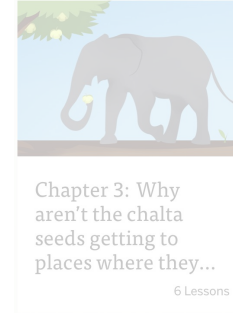
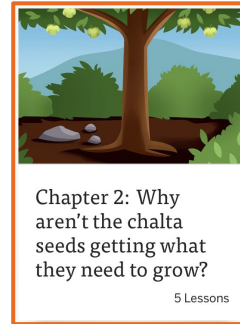
Chapters

↓

Lessons

↓

Activities



Let's Go Live!



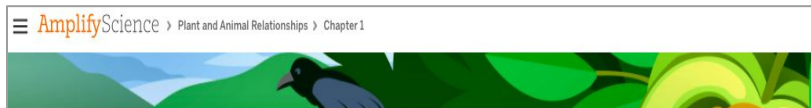
JUMP DOWN TO UNIT GUIDE



Chapter 1: Why aren't new chalta trees growing in the Bengal Tiger Reserve...

7 Lessons

Español



Chapter 1: Why aren't new chalta trees growing in the Bengal Tiger Reserve?

JUMP DOWN TO CHAPTER OVERVIEW

Lesson 1.1:
Pre-Unit Assessment

Lesson 1.2:
My Nature Notebook

Lesson 1.3:
Investigating Habitats

AmplifyScience > Plant and Animal Relationships > Chapter 1 > Lesson 1.1

Lesson 1.1: Pre-Unit Assessment

Lesson Brief (3 Activities) | 1 TEACHER LED DISCUSSION Introducing the Context of the Unit | 2 READING Introducing the Reference Book | 3 STUDENT TO STUDENT DISCUSSION Diagramming Initial Explanations

RESET LESSON

GENERATE PRINTABLE LESSON GUIDE

Overview

Materials & Preparation

Differentiation

Overview

Students' Initial Diagrams

Students are introduced to the Plant and Animal Relationships unit

Digital Resources

Classroom Slides 1.1 | PowerPoint

Classroom Slides 1.1 | Google Slides

Español


Explore the Essentials!

AmplifyScience > Plant and Animal Relationships

22 Lessons


Plant and Animal Relationships

JUMP DOWN TO UNIT GUIDE



Chapter 1: Why aren't new chalta trees growing in the Bengal Tiger...

7 Lessons



Chapter 2: Why aren't the chalta seeds getting the help they need to...

Español

AmplifyScience > Plant and Animal Relationships > Chapter 1

Chapter 1: Why aren't new chalta trees growing in the Bengal Tiger Reserve?

JUMP DOWN TO CHAPTER OVERVIEW

AmplifyScience > Plant and Animal Relationships > Chapter 1 > Lesson 1.1

Lesson 1.1: Pre-Unit Assessment

Lesson Brief (3 Activities)

1 TEACHER LED DISCUSSION
Introducing the Context of the Unit

2 READING
Introducing the Reference Book

3 STUDENT TO STUDENT DISCUSSION
Diagramming Initial Explanations

RESET LESSON

GENERATE PRINTABLE LESSON GUIDE

Overview

Materials & Preparation

Differentiation

Overview

Students' Initial Diagrams

Students are introduced to the Plant and Animal Relationships unit

Digital Resources

Classroom Slides L1 | PowerPoint

Classroom Slides L1 | Google Slides

Español

Navigation summary

1. Select your first unit
 - a. You are now on the Unit Landing Page.
2. Select **JUMP DOWN TO UNIT GUIDE**.
 - a. Or scroll down the page to *Planning for the Unit* and *Teacher References*



Unit Landing Page

AmplifyScience > Plant and Animal Relationships



▼ JUMP DOWN TO UNIT GUIDE



GENERATE PRINTABLE TEACHER'S
GUIDE



Chapter 1: Why
aren't new chalta
trees growing in the
Bengal Tiger...

7 Lessons



Chapter 2: Why
aren't the chalta
seeds getting what
they need to grow?

5 Lessons



Chapter 3: Why
aren't the chalta
seeds getting to
places where they...

6 Lessons

Español



Key Unit Guide Documents for Unit Planning

Planning for the Unit	Printable Resources
Unit Overview	Coherence Flowcharts
Unit Map	Copymaster Compilation
Progress Build	Flexextension Compilation
Getting Ready to Teach	Investigation Notebook
Materials and Preparation	Multi-Language Glossary
Science Background	NGSS Information for Parents and Guardians
Standards at a Glance	Print Materials (8.5" x 11")
	Print Materials (11" x 17")
Teacher References	
Lesson Overview Compilation	
Standards and Goals	
3-D Statements	
Assessment System	
Embedded Formative Assessments	
Books in This Unit	
Apps in This Unit	
Flexextensions in This Unit	

Offline Preparation

Teaching without reliable classroom internet? Prepare unit and lesson materials for offline access.

Offline Guide

Core Unit Planning & Internalization

Unit Title:	
-------------	--

1

Overview

[Resources: Unit Overview, Teacher's Guide, Coherence Flowchart, Unit Map, 3-D Statements]

What is the phenomenon/real-world problem students are investigating in your unit?	Student Role:
--	---------------

2

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 phenomenon/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:

Plant and Animal Relationships

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?

What is happening to the chalta trees in the Bengal Tiger Reserve?

Student Role:

Plant Scientists

Unit Question:

How do the living things in a habitat depend on each other?

Relationship between the Unit Phenomenon and Unit Question:

Students use their newfound understanding of plant needs and plant-animal relationships in a habitat to explain what chalta seeds need to grow into full-grown trees and why no new chalta trees are growing in the Bengal Tiger Reserve.

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

The chalta trees in the Bengal Tiger Reserve depend on elephants to disperse their seeds. Elephants eat the chalta fruit for food, move to other places in the habitat, and leave droppings with seeds. A fence built in 1996 has prevented elephants from coming inside the reserve, so elephants no longer disperse chalta seeds to places where they might grow.

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

Students use and create models to investigate and then plan and carry out investigations to explain why new chalta trees are not growing in a section of a broadleaf forest in India. In so doing, they figure out how the parts of a habitat system interact generally and about seed dispersal mechanisms specifically.

Navigate to a lesson page

≡ AmplifyScience > Plant and Animal Relationships > Chapter 1 > Lesson 1.1



Lesson 1.1: Pre-Unit Assessment

Lesson Brief
(3 Activities)

1

TEACHER-LED DISCUSSION
Introducing the Context of
the Unit



2

READING
Introducing the Reference
Book



3

STUDENT-TO-STUDENT
DISCUSSION
Diagramming Initial
Explanations



RESET LESSON



GENERATE PRINTABLE LESSON GUIDE

Overview

Materials &
Preparation

Differentiation

Español

Overview

Students' Initial Diagrams

Students are introduced to the *Plant and Animal Relationships* unit

Digital Resources

Classroom Slides 1.1 | PowerPoint

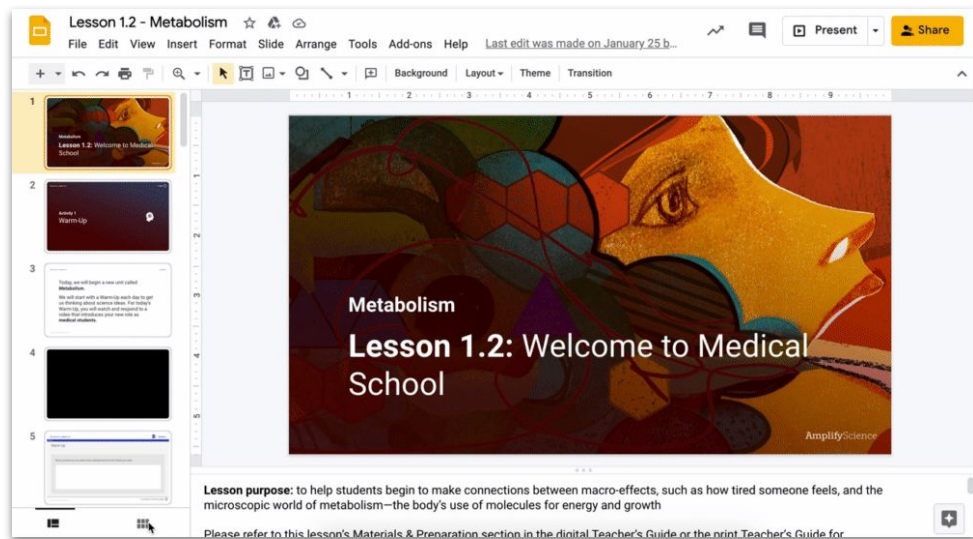
Classroom Slides 1.1 | Google
Slides



Using Classroom Slides as a planning tool

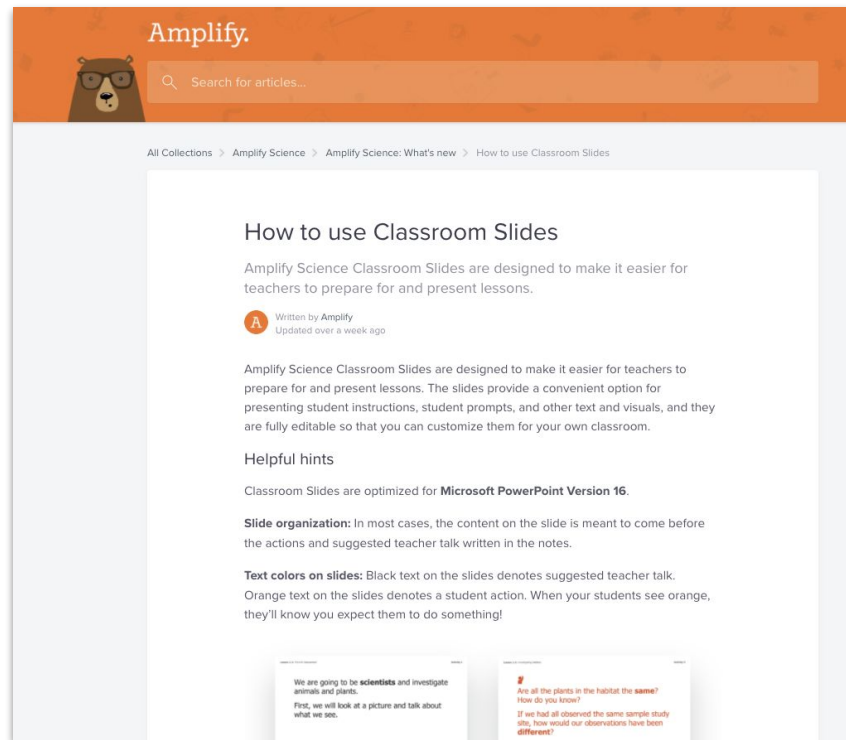
Teacher tip: Classroom Slides are a great visual summary of a lesson. Many teachers download and flip through a lesson's Classroom Slides deck to preview what happens in the lesson.

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: My Nature Notebook

4 Easy Steps to Teaching an Amplify Lesson

Lesson Brief
(3 Activities)

1

TEACHER-LED DISCUSSION
Setting a Purpose for
Reading



2

READING
Partner Reading



3

TEACHER-LED DISCUSSION
Reflecting on Ways to Study
a Habitat



Step 1: Download the
Classroom Slides

Step 2: Read the Overview
Section

Step 3: Read the Materials
& Preparation Section

Step 4: Read the
Differentiation Section

RESET LESSON

Lesson Brief

Overview

Materials & Preparation

Differentiation

Standards

Vocabulary

Unplugged?

2

3

4



GENERATE PRINTABLE LESSON GUIDE

Digital Resources



Classroom Slides 1.2 | PowerPoint



Partner Reading Guidelines



Setting a Purpose chart:
Completed

1

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



Questions?



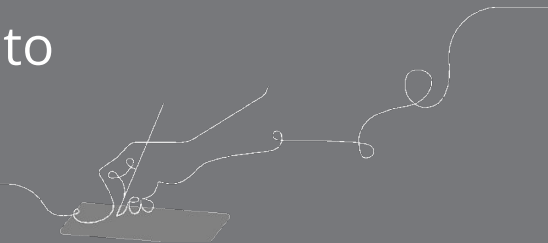
Plan for the day: Part 1

- Introduction and Framing
- Phenomenon-based Instruction
- Program Essentials
- Closing

Overarching goals

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

- ✓ Navigate the full Amplify Science standard curriculum.
- ✓ Understand the program's phenomenon-based approach.
- ✓ Apply the program essentials to prepare to teach.



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

Welcome, caregivers!

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

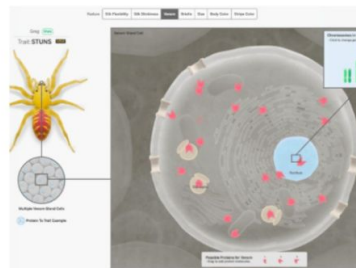
[Para acceder a este sitio en español haga clic aquí.](#)

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.

 [Contact Us](#)



Grades 6-8



LAUSD Microsite-

<https://amplify.com/laUSD-science>

Welcome to Amplify Science!

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

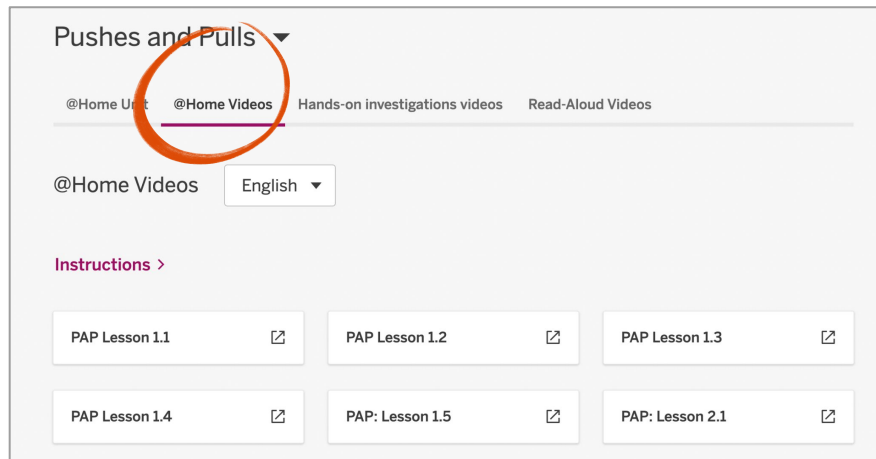
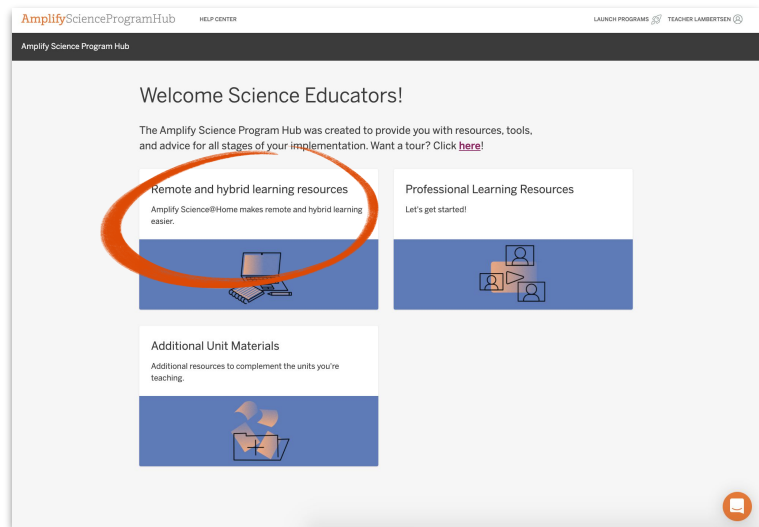
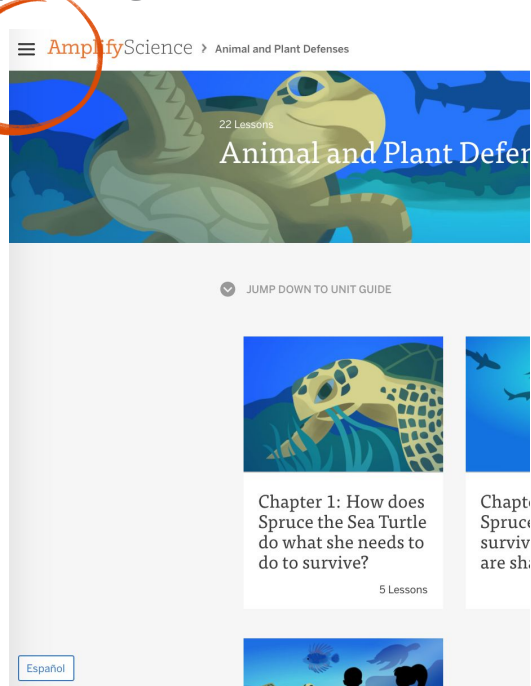
- Access the [Amplify Science Program Hub](#) (To help orient you to the new design, watch this [video](#) and view this [reference guide](#).)
- Find out more about [Amplify Science@Home](#)
- Share the [Caregiver Hub](#) (Eng/Span) with your families
- For LAUSD ES Teachers- [Amplify Science & Benchmark 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!



Program Hub

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



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 on today's session!

Presenter name:

Workshop title:

Part 1: Navigating Program Essentials

Part 2: Guided Planning

Modality:

Remote



End of Part 1