Amplify Science

Navigation Program Essentials / Guided Planning

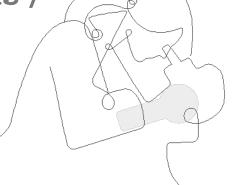
Grade 3, Unit 1: Balancing Forces

Part 1

School/District Name: LAUSD

Date: December, 2021

Presented by:

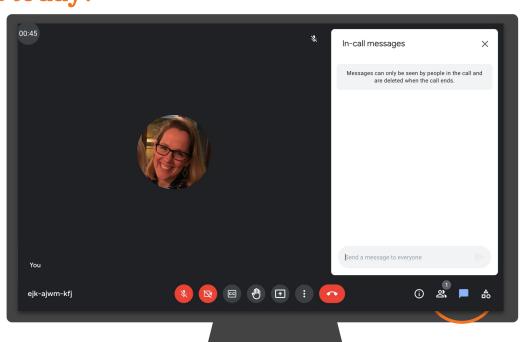




Ice Breaker!

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

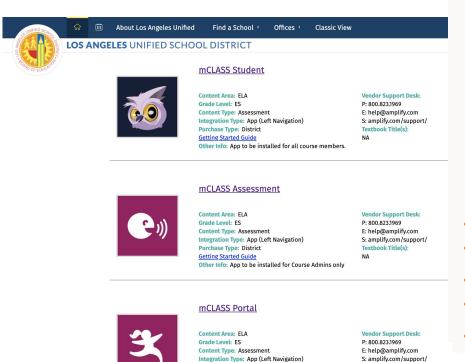
Norms: Establishing a culture of learners

- 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.

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Last year's Amplify apps.

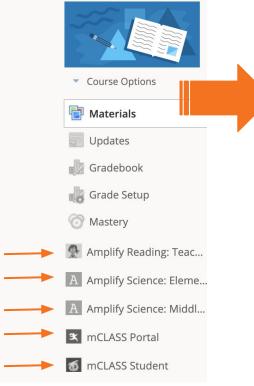


Purchase Type: District

Other Info: App to be installed for Course Admins only

Getting Started Guide

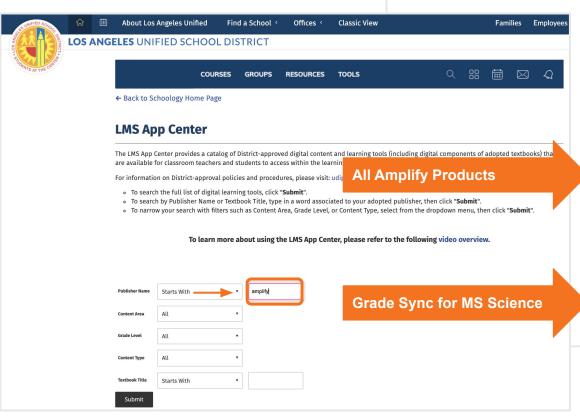
Textbook Title(s):







This year's app(s).



LMS App Center

Classic View

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: udipp.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

Fractions



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

Other Info: School licenses require
mCLASS
CKLA
Amplify Reading
Amplify Science

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

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

my.amplify.com

Amplify.

MY ACCOUNT ADMIN REPORTS

LAUNCH PROGRAMS Ø TERIN NGO



i 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

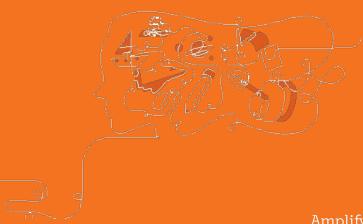




Join Amplify Science Schoology Group

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

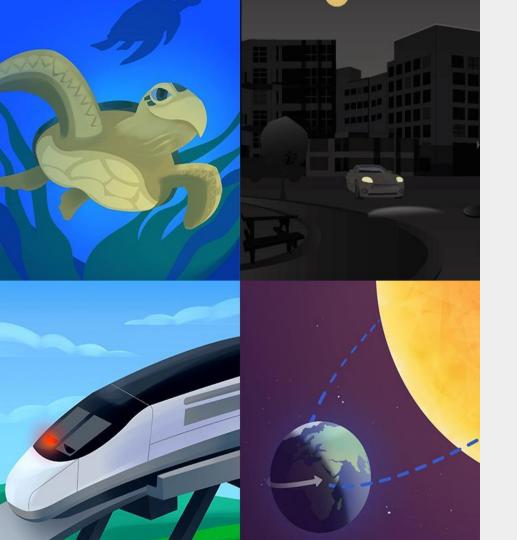
Part 1



Overarching goals

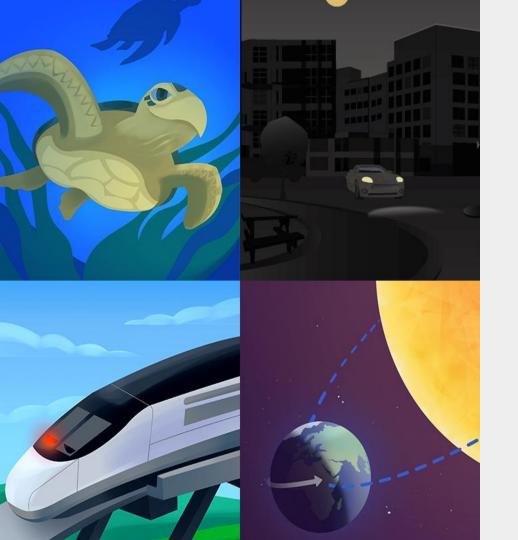
By the end of this workshop, you will be able to:

- ☐ 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

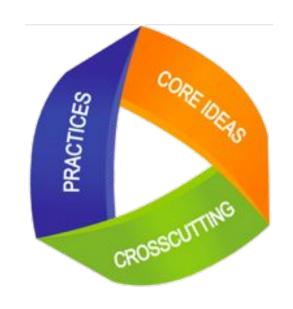
- Introduction and Framing
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+ Amplify.

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 3









Balancing Forces

Inheritance and Traits

Environments and Survival

Weather and Climate

Domain: Physical Science

Domain: Life Science

Domain: Life Science

Domain: Earth and Space Science

Unit type: Modeling

Unit type: Investigation

Student role: Wildlife

Unit type: Engineering Design

Unit type: Argumentation

Student role:

Engineers biologists

Student role:

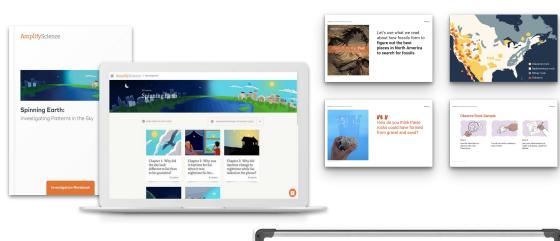
Biomimicry engineers

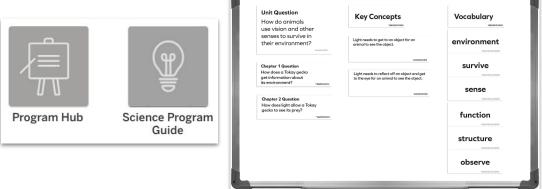
Student role: Meteorologists

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

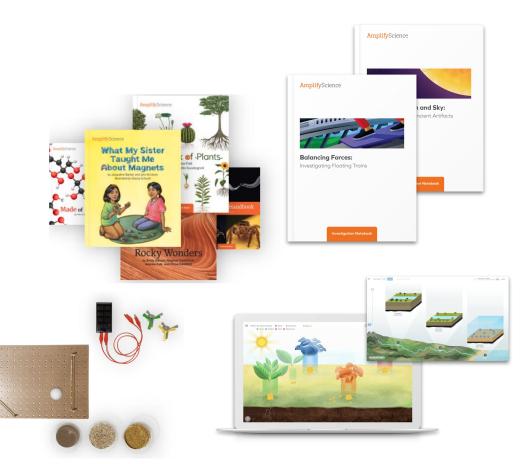




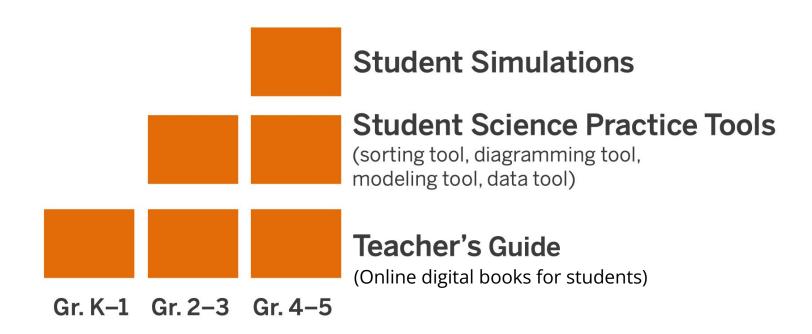
K-5 Program components

Student materials

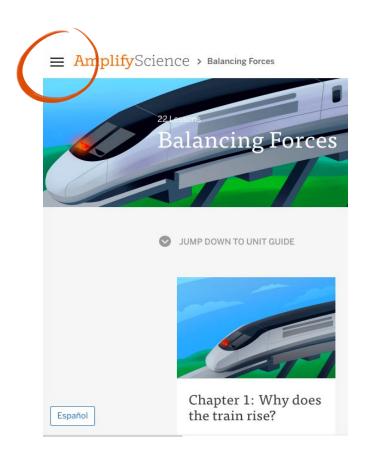
- Hands-on materials
- Investigation Notebooks (print and digital)
- Student books
- Digital Applications

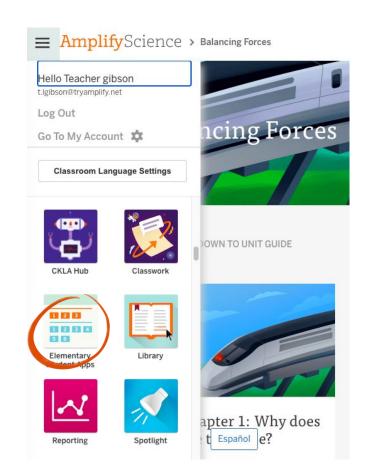


What are the digital components of Amplify Science Elementary?



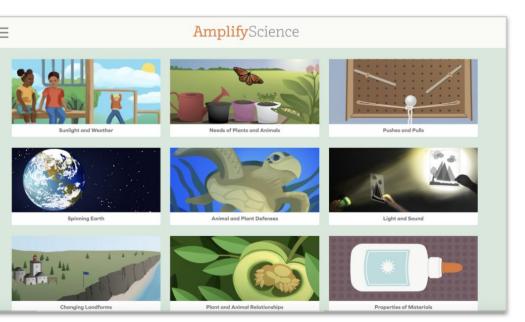
Navigating to the Student Apps page





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 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.)
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- Instructional guidance for a Responsive Relaunch of Amplify Science in 21-22

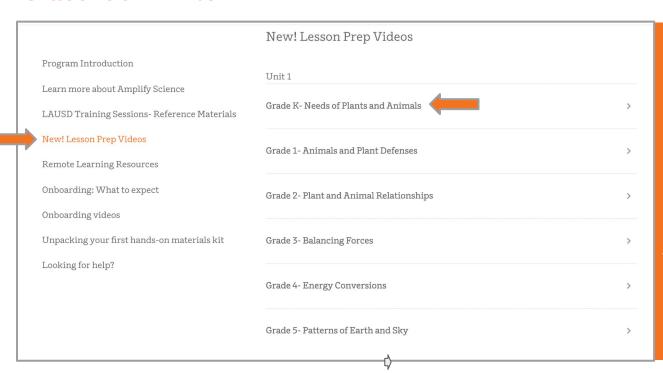
Click the button below to preview the digital Teacher's Guide, and check back for exciting updates to this site!





Unit 1, K-5 Lesson Prep Videos

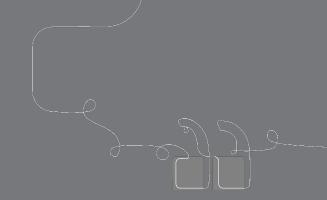
Classroom kits

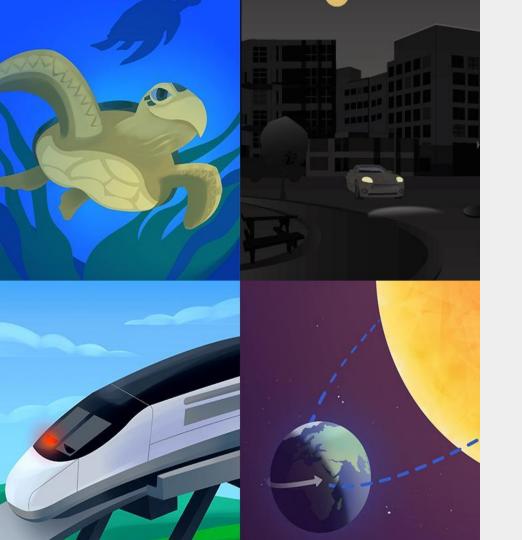


Classroom Kits

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

Questions?





Plan for the day: Part 1

- Introduction and Framing
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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.	

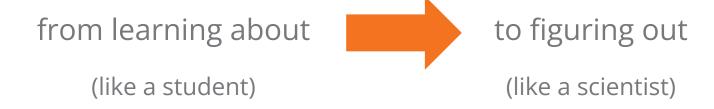
Next Generation Science Standards

How might learning be different?

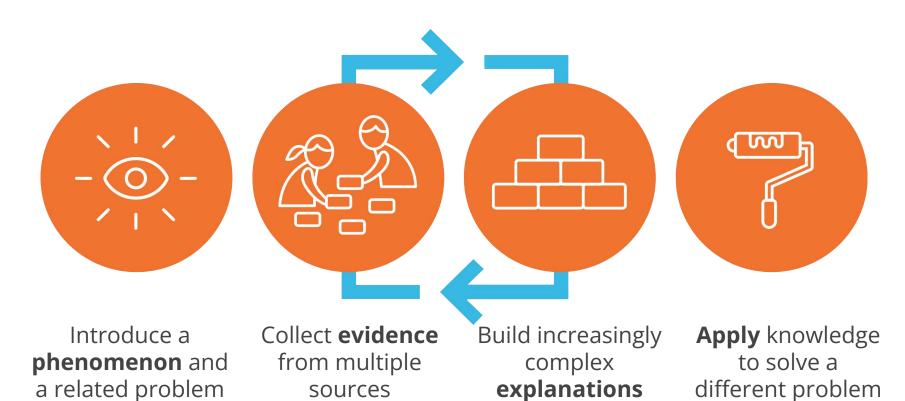
Topic-based	Phenomenon-based		
Chemical reactions	There's a reddish-brown substance in a town's tap water.		
Electric circuits	A flashlight won't turn on, even though it used to work.		
Natural selection	A population of newts has become more poisonous over time.		

Comparing topics and phenomena

A shift in science instruction



Amplify Science Approach

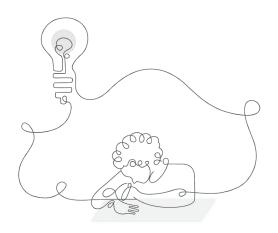


Previewing the unit

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.



Lesson 1.1: Pre-Unit Assessment Activity 1

The unit we're beginning is called *Balancing Forces: Investigating Floating Trains*.

In this unit, you will investigate how something can start moving or stop moving without anything touching it.

Lesson 1.1: Pre-Unit Assessment

Activity T





The train floated up without anything touching it. Later, it fell back down to the track.

We are going to figure out how floating trains work.

Amplify Science

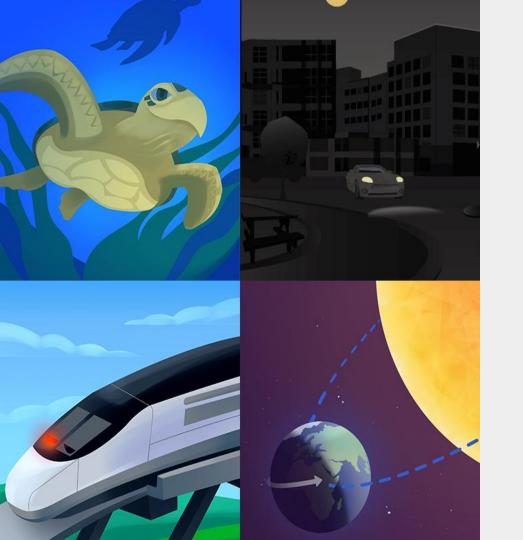
Anchoring phenomenon

- 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
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Chapter 2: Why does the train rise without anything touching it?



Chapter 3: Why does

4 Lessons



Chapter 4: Why does the train float, even though gravity is acting on it?

4 Lesson



Chapter 5: Why does the train change from floating to falling?

5 Lacen



Lesson 2.2: What Objects Do Magnetic Forces Act On?



Investigating Ways
Magnetic Force
Moves Objects

Lesson 2.4: What My Sister

What My Sister
Taught Me About
Magnets

Lesson 2.5:

Explaining Magnetic

Lesson Brief (3 Activities) HANDS-ON Investigating What Objects Magnetic Forces Act On Discussing What Objects
Magnetic Forces Act On

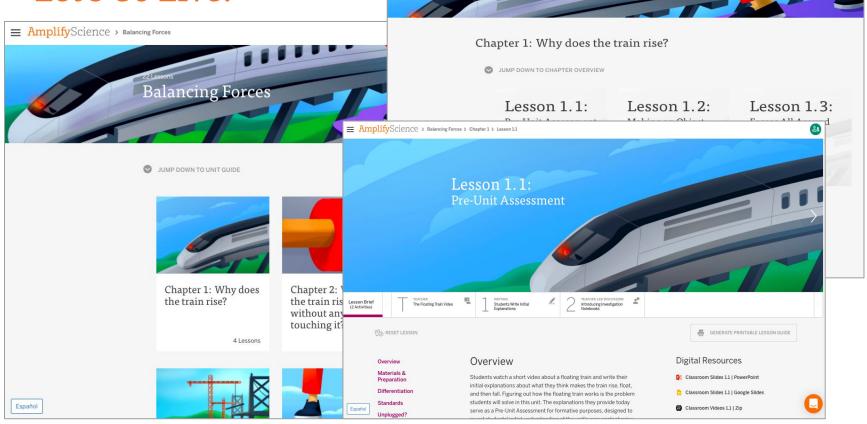
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READING
Reading: Handbook of
Forces



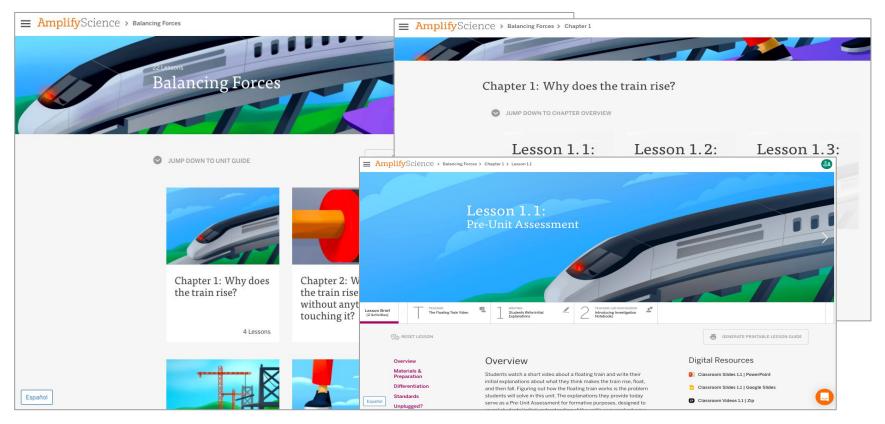
♥ ZUTO THE REYENTS OF THE

Let's Go Live!



■ AmplifyScience > Balancing Forces > Chapter 1

Explore the Essentials!

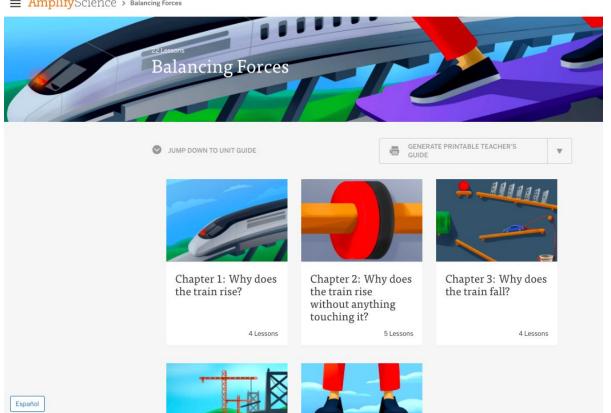


Navigation summary

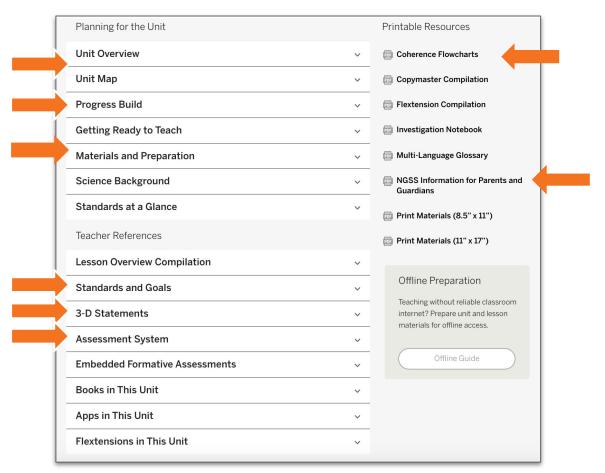
- 1. Select your first unit
 - a. You are now on the Unit Landing Page.
- 2. Select JUMP DOWN TO UNIT GUIDE.
 - a. Or scroll down the page to *Planning* for the *Unit* and *Teacher References*

Unit Landing Page

■ AmplifyScience > Balancing Forces



Key Unit Guide Documents for Unit Planning



Core Unit Planning & Internalization

Unit Title:

Overview

[Resources: Unit Overview, Teacher's Guide, Coherence Flowchart, Unit Map, 3-D Statements]	
What is the phenomenon/real-world problem students are investigating in your unit?	Student Role:
Unit Question:	Relationship between the Unit Phenomenon and Unit Question:
By the end of the unit, students figure out	
	6
How do students engage with three-dimensional learning to figure out the ph	nenomenon/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

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Core Unit Planning & Internalization

Unit Title:

Balancing Forces

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?

How is it possible for a train to float?

Unit Question:

What can make an object move or not move?

Relationship between the Unit Phenomenon and Unit Question:
In coming to understand how a floating train works, students grasp of an array of foundational concepts in the area of force and motion.

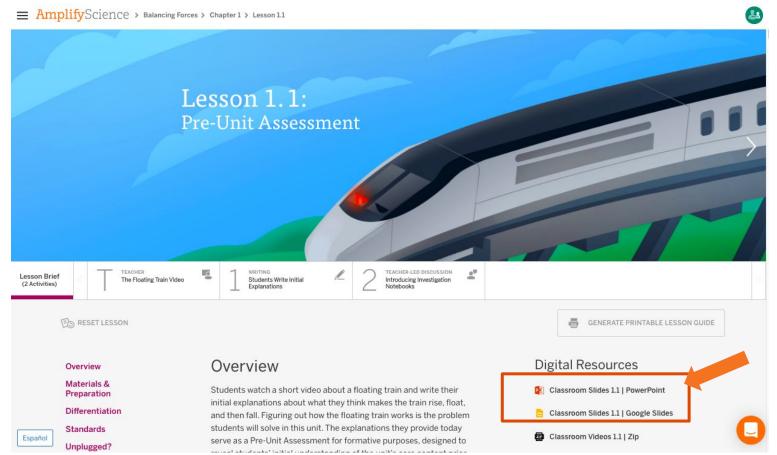
By the end of the unit, students figure out...

More than one force can be exerted on the train at a time. The force of gravity is pulling the train toward Earth, and magnetic force is pushing the train up away from the tracks. Those forces work in opposite directions so when the forces are balanced, the train floats and stays in the air.

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

Students plan and conduct investigations, analyze patterns in data (patterns), and obtain information about magnetic force, gravity, and balanced and unbalanced forces. Students write explanations and create physical models and diagram models to show why the train's vertical motion is stable at times and changes at times.

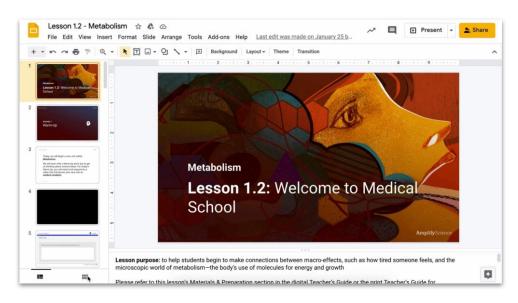
Navigate to a lesson page



Using Classroom Slides as a planning tool

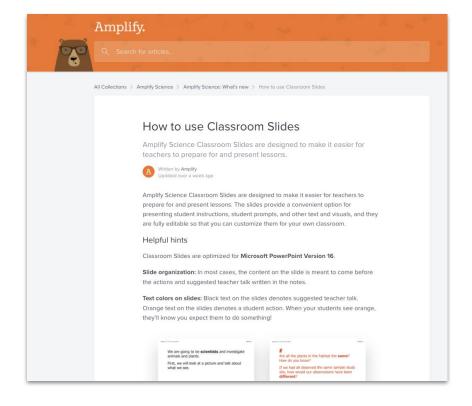
Teacher tip: Classroom Slides are a great visual summary of a lesson. Many teachers download and flip through a lesson's Classroom Slides deck to preview what happens in the lesson.

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



Teaching with Classroom Slides

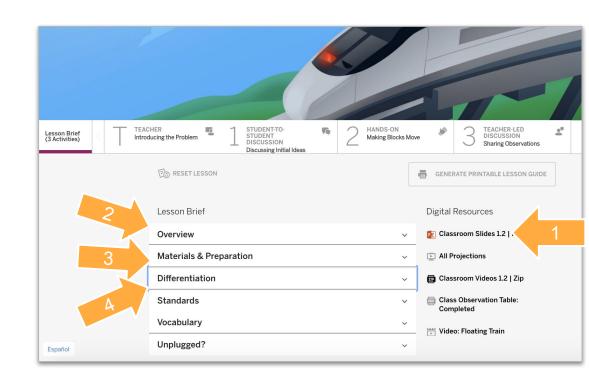
This detailed guide on the Amplify Science Help Site includes tips for teaching with Classroom Slides and information about the different symbols and activity types you'll find in the slide deck.



4 Easy Steps to Teaching a lesson

DIRECTIONS:

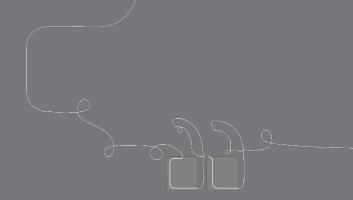
- Download the Classroom Slides for Lesson 1.1 and review them.
- 2. Read the Overview.
- 3. Explore the Materials & Preparation document.
- 4. Read the **Differentiation** document.



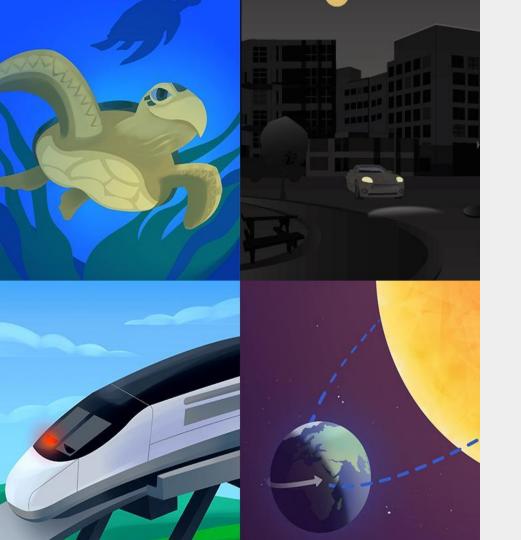
Navigation Temperature Check

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
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- 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.

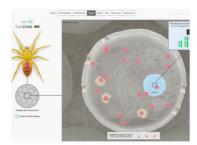
Para acceder a este sitio en español haga clic aquí.

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.











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

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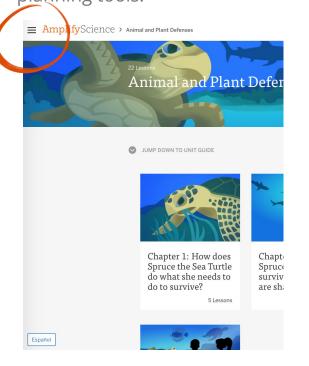
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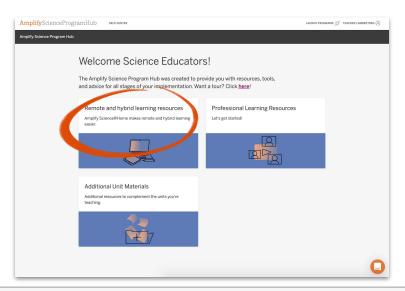


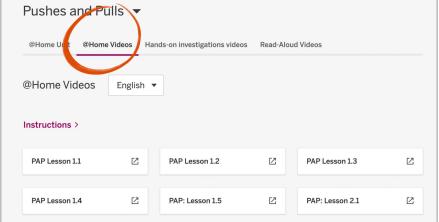
Program Hub

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

