

# Welcome to Amplify Science!

Follow the directions below as we wait to begin.

1. Please log in to your Amplify Account.
2. Sign in using link dropped in chat.
3. Open your Participant Notebook.



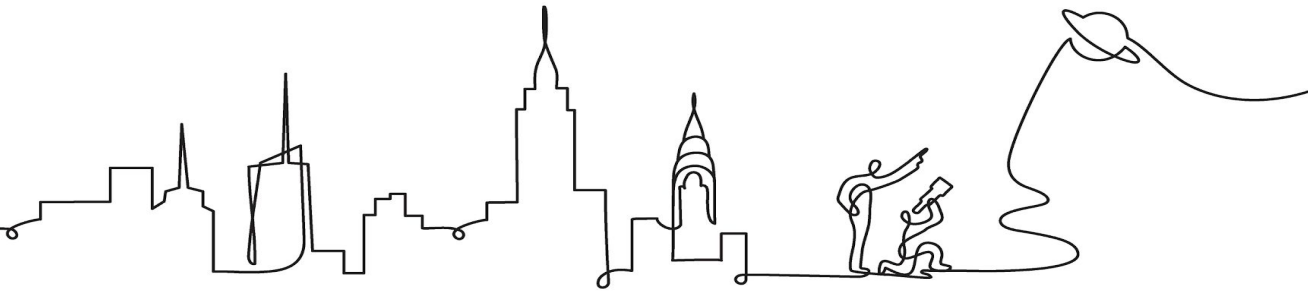
# Amplify Science

New York City

## The Amplify Science Approach: Practicing Multiple Modalities & 3-D Learning Grade 3

Date xx

Presented by xx

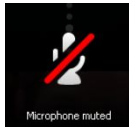


# Remote Professional Learning Norms



Take some time to orient yourself to the platform

- *“Where’s the chat box? What are these squares at the top of my screen?, where’s the mute button?”*



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



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



Make sure you have a note-catcher present



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

# Use two windows for today's webinar

**Window #1**

Meet - Etiwanda Grade 7 N x +  
meet.google.com/hcs-dxpk-wrm?aut...

Miller Copy of Navigation Prop... x Amplify Curriculum  
apps.learning.amplify.com/curriculum/#unit/8a31e095506df82015256f884b4544\_californiaintegrated2019-2020#progress-build

**Amplify Science** CALIFORNIA > Plate Motion

**OPEN PRINTABLE PROGRESS BUILD**

**Progress Build Level 1:** The Earth's entire outer layer (below the water and soil that we see) is made of solid rock that is divided into plates. Earth's plates can move.

Underneath the soil, vegetation, and water that we see on the surface of Earth is the outer layer of Earth's geosphere, the solid part of our rocky planet. This outer layer of Earth is covered entirely with hard, solid rock that is divided into sections called plates. And, these plates can move.

**Progress Build Level 2:** The plates move on top of a soft, solid layer of rock called the mantle. At plate boundaries where the plates are moving away from each other, rock rises from the mantle and hardens, adding new solid rock to the edges of the plates. At plate boundaries where plates are moving toward each other, one plate moves underneath the other and sinks into the mantle.

Underneath the soil, vegetation, and water that we see on the surface of Earth is the outer layer of Earth's geosphere, the solid part of our rocky

Getting Ready to Teach

Materials and Preparation

Flexension Compilation

Investigation Notebook

NGSS Information for Parents and Guardians

Print Materials (11" x 17")

Print Materials (8.5" x 11")

Offline Preparation

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

Offline Guide

**Window #2**

Amplify Curriculum x +  
apps.learning.amplify.com/curriculu...  
Amplify Science CALIFORNIA > Plate Motion > Chapter 1 > Lesson 1.2

**Lesson 1.2:**  
Using Fossils to Understand Earth

Lesson Brief (4 Activities) 1 WARM-UP Warm-Up T TEACHER-LED DISCUSSION Why Geologists Value Fossils 2 TEACHER-LED DISCUSSION Introducing Mesos

RESET LESSON GENERATE PRINTABLE LESSON

Lesson Brief

Overview

Materials & Preparation

Differentiation

Español rds

Digital Resources

All Projections

Completed Scientific Argumentation Wall Diagram

Video: Meet a Paleontologist

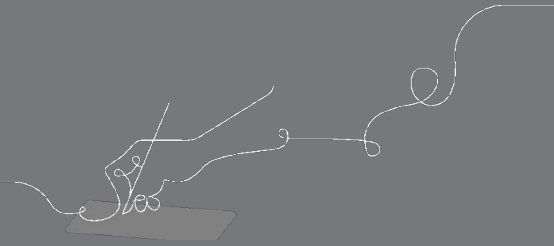
The Ancient Mesosaurus

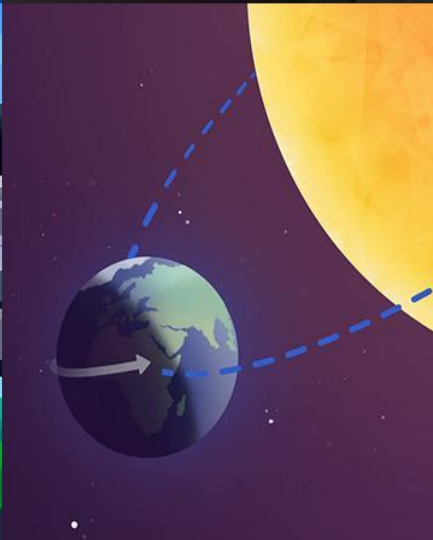
# Objectives

By the end of this 1-hour workshop, you will be able to...

- Analyze the role of multimodal and 3-dimensional learning in a coherent @Home lesson activity sequence.
- Adapt multimodal and 3-dimensional instructional routines to your learners' particular instructional contexts.
- Support caregivers as partners in practicing multiple modalities and 3-dimensional learning at home.

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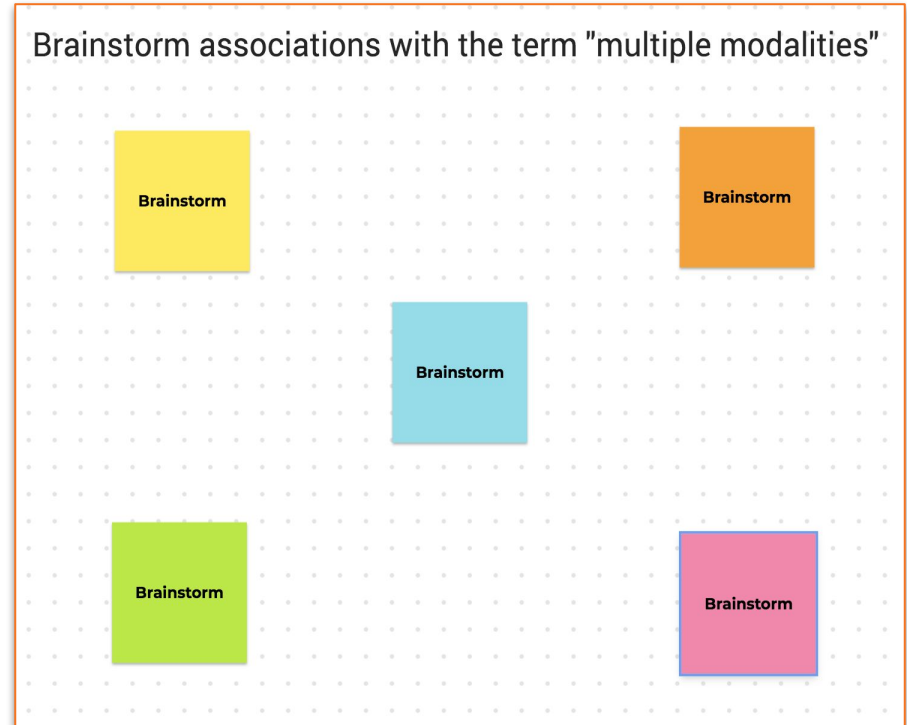
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# Anticipatory activity

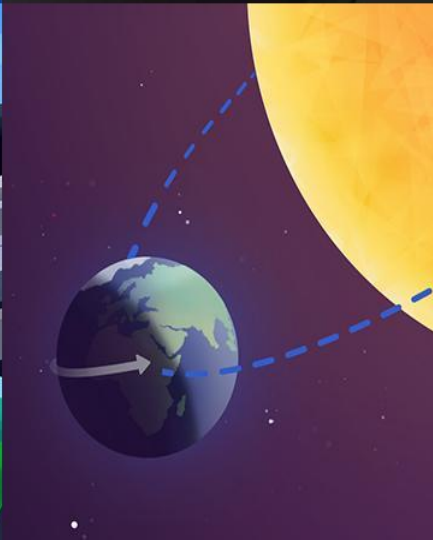
## On the Jamboard “post” ....

- Your **associations** with these terms:
  - “Multiple modalities”
  - “3-Dimensional learning”
  - “Amplify Science approach”









# Plan for the day

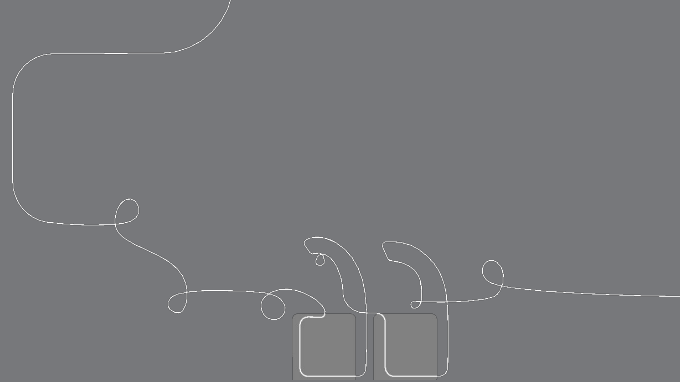
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# Multimodal, phenomenon-based learning

In each Amplify Science unit, students embody the role of a scientist or engineer to **figure out phenomena**.

They gather evidence from multiple sources, using multiple modalities.

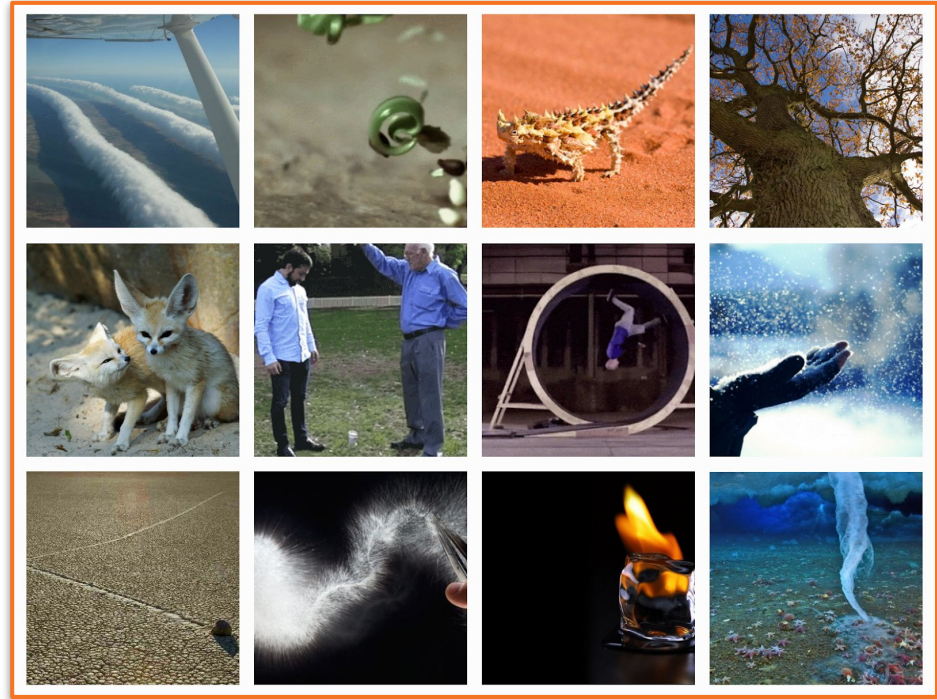




# What are PHENOMENA?

# Phenomena are observable occurrences.

- These occurrences stimulate curiosity or pose problems to for students to solve.
- Students are motivated to ask science questions or design solutions that drive learning.



# Amplify Science units focus on phenomena

Topics	Phenomena
all about sea turtles	How do sea turtles defend themselves from sharks?
inheritance and traits	How do organisms get their traits?
ecosystem restoration	How can an ecosystem be restored to its original healthy state?

# Shifts called for in the NRC\* framework

Learning about topics



Figuring out phenomena

Listing or classifying facts  
devoid of context



Understanding  
interrelatedness of ideas

Simple observations



Complex causal  
explanations

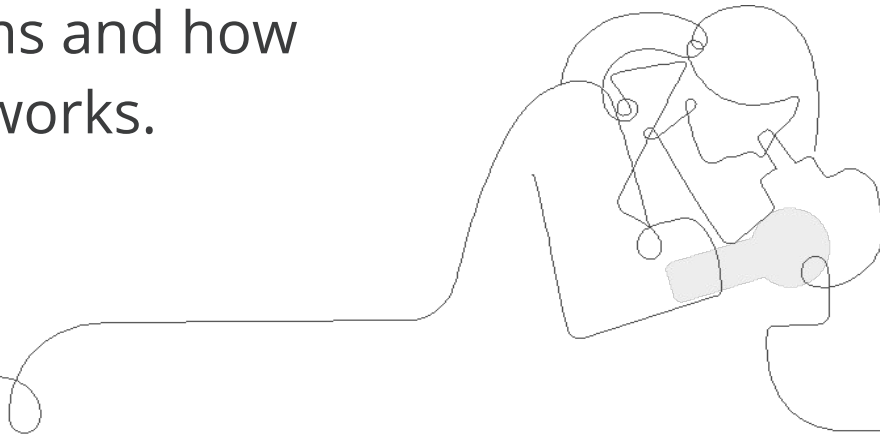
\*National Research Council of the National Academy of Sciences, 2011

Figure out,  
not learn about



# Problem-based deep dives

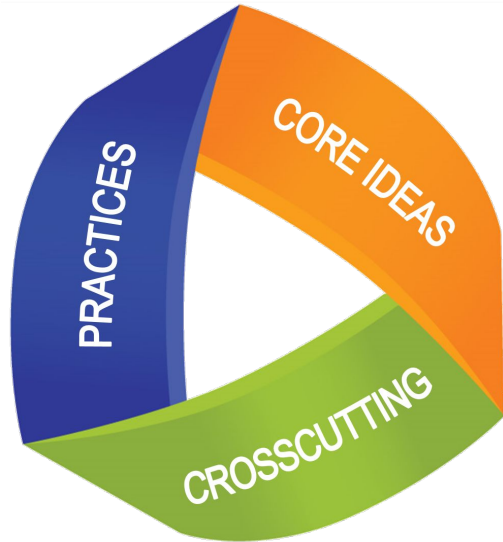
Students inhabit the roles of scientists and engineers to figure out solutions to real-world problems and how the natural world works.





# Three dimensions of NYSSLS

p. 4



## Disciplinary Core Ideas

- Describe core ideas in the science discipline (DCI)

## Science and Engineering Practices

- Describe behaviors scientists and engineers engage in (SEP)

## Crosscutting Concepts

- Describe concepts linking the different domains of science (CCC)



# Disciplinary Core Ideas

The foundational concepts lessons are based on

## Physical Science

- PS1 Matter and Interactions
- PS2 Motion and Stability: Forces and Interactions
- PS3 Energy
- PS4 Wave Properties

## Earth & Space Science

- ESS1 Earth's Place in the Universe
- ESS2 Earth's Systems
- ESS3 Earth and Human Activity

## Life Science

- LS1 From Molecules to Organisms: Structure and Properties
- LS2 Ecosystems: Interactions, Energy, and Dynamics
- LS3 Heredity: Inheritance and Variation of Traits
- LS4 Biological Evolution: Unity and Diversity

## Earth & Space Science

- ETS1 Earth's Place in the Universe

# Science and Engineering Practices (SEP)

## How students engage as scientists

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

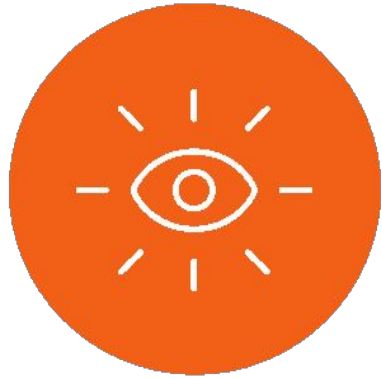
# Crosscutting Concepts (CCC)

## How students makes sense of phenomenon

- Patterns
- Cause and Effect
- Scale, Proportion and Quantity
- Systems and System Models
- Energy and Matter
- Structure and Function
- Stability and Change



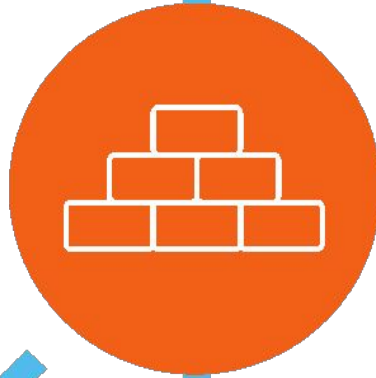
# Amplify Science approach



**Introduce a phenomenon  
and a related problem**



**Collect evidence from  
multiple sources**



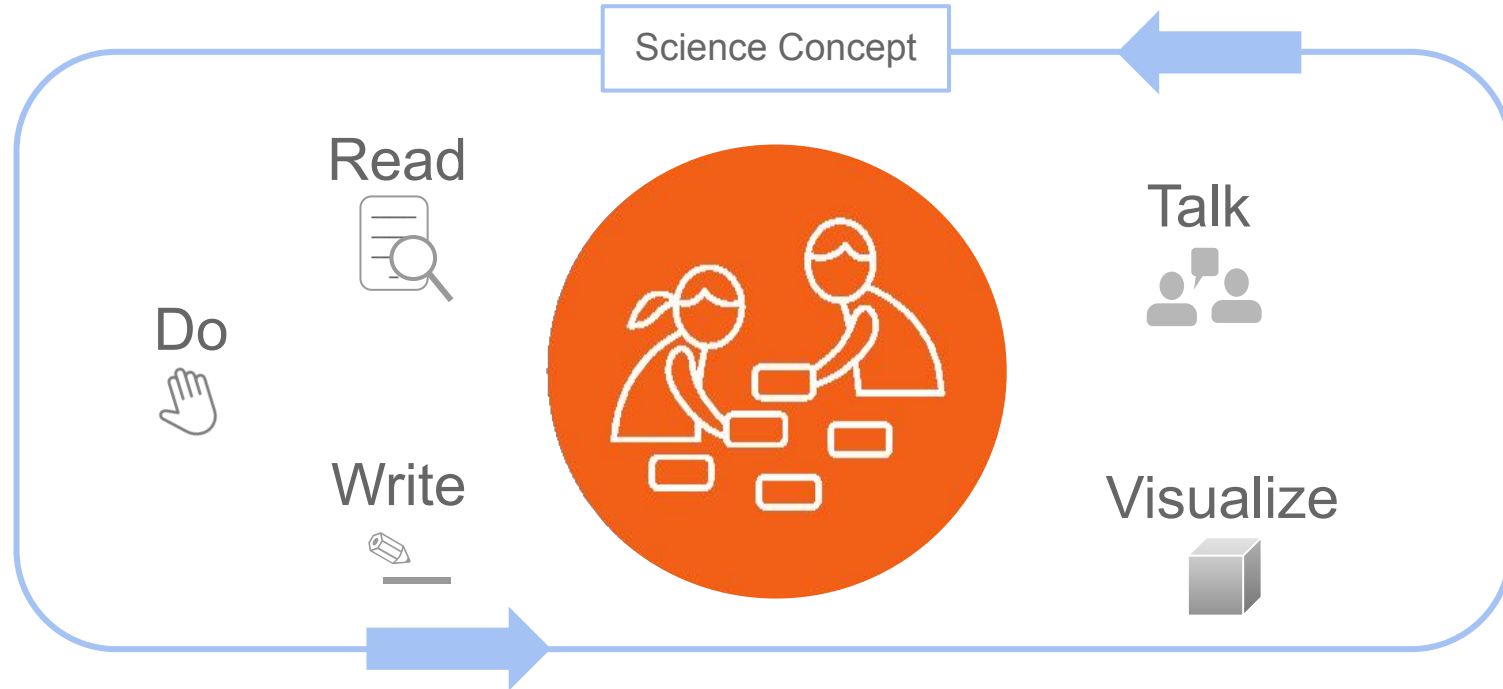
**Build increasingly  
complex explanations**



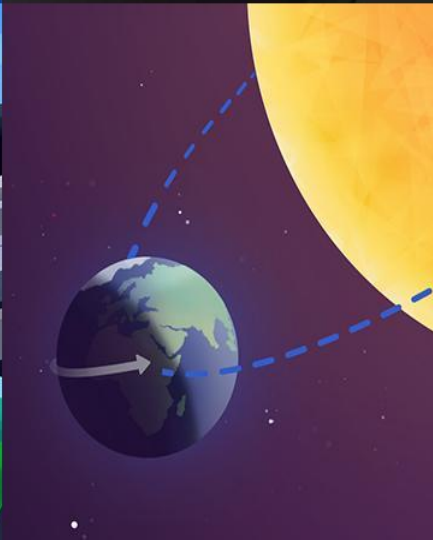
**Apply knowledge  
to a different context**

# Multimodal learning

## Gathering evidence from different sources







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# Temperature Check

Rate your comfort level accessing and navigating the Amplify Science @Home Resources

1 = Extremely Uncomfortable

2 = Uncomfortable

3 = Mild

4 = Comfortable

5 = Extremely Comfortable

# AmplifyScience@Home

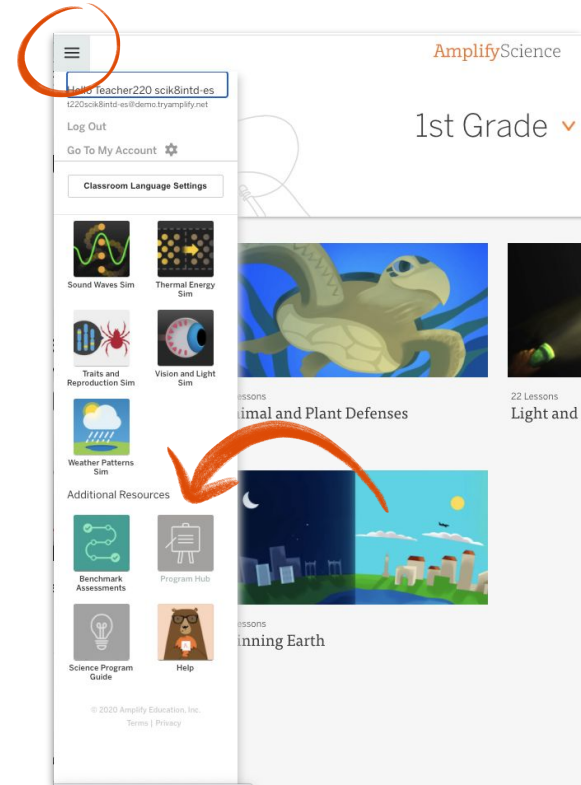
A suite of new resources designed to make extended remote and hybrid learning easier for teachers and students.



# Accessing Amplify Science@Home

## Amplify Science Program Hub

- Contains Amplify Science@Home and additional PL resources
- Accessible via the Global Navigation menu
- First unit for each grade level is now available
- Additional units rolling out throughout back-to-school



# AmplifyScience@Home

Two different options:

## @Home Units

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

## @Home Videos

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



AmplifyScience

Hello Teacher Sinha-Das  
17616-0401@amplify.net

Log Out

Go To My Account

Classroom Language Settings

ELA Resources

Job Postments

LA Science Program Guide

Science Program Guide


FLORIDA EDITION

Standards Map


Help

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1st Grade ▾ **Step 1**



22 Lessons  
**Animal and Plant Defenses**



22 Lessons  
**Light and Sound**



22 Lessons  
**Spinning Earth**

AmplifyScience Program Hub

LAUNCH PROGRAMS

TEACHER SINHA-DAS


**Step 2**

**Welcome, Amplify Science Educators!**

The Amplify Science Program Hub consists of resources, tools, and advice to help you make the most of getting started with your program. We've also provided tips and guidance on how to use Amplify Science in a remote and hybrid learning model.

We're excited to partner with you on this journey and can't wait to get started! Please select the button below that best describes your role:

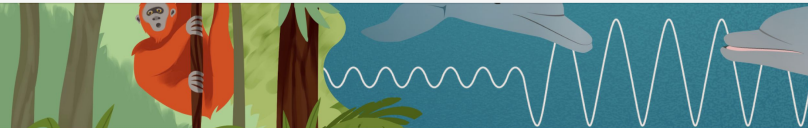
**I am a Teacher** **I am a Leader**



AmplifyScience Program Hub

LAUNCH PROGRAMS

TEACHER SINHA-DAS



Hello, Teacher!

Search

Welcome

**Remote learning: Amplify Science@Home**

Hands-on investigations support

Unit extensions

Using this site for self study

Program Overview

Navigation and Materials

**Welcome, Amplify Science teacher!**

Let's get started! This site will provide you with the knowledge and skills you need to start teaching with Amplify Science. Here you will:

- learn to navigate the digital Teacher's Guide
- become familiar with unit resources
- get planning tips, and
- find our new, flexible remote and hybrid learning supports

This site will be continuously updated, so please check back regularly.

**Step 3**

AmplifyScience Program Hub

LAUNCH PROGRAMS

TEACHER SINHA-DAS

Hello, Teacher!

Search

Welcome

Remote learning: Amplify Science@Home

About Amplify Science@Home

Grade-level resources

@Home Resources Orientation Videos

Additional resources

Hands-on investigations support

Unit extensions

Using this site for self study

Program Overview

Navigation and Materials

Grade-level resources

Select your grade below to access the @Home resources. Please do not share or distribute these materials outside of your district.

- Kindergarten
- Grade 1
- Grade 2
- Grade 3
- Grade 4
- Grade 5
- Grade 6
- Grade 7
- Grade 8

**Step 4 (scroll down and choose your grade)**

@Home Resources Orientation Videos

Check out these videos for an overview of what's available, plus tips and strategies for teaching with Amplify Science@Home this back to school.

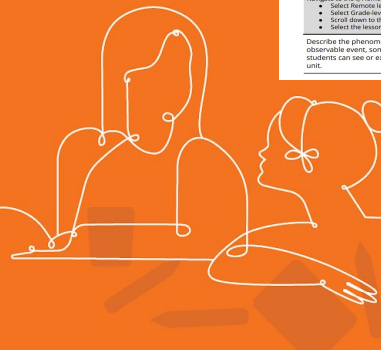
# Review your @Home Unit

Navigate to your unit on the Program Hub and explore (if you this is your first time).

OR,

Complete scavenger hunt (if you explored these resources before)

p. 3



@Home Resources Scavenger Hunt	
<b>Directions:</b> Use this scavenger hunt to practice navigating the Program Hub and decide which @Home resources best supports your current instructional needs.	
Part 1: @Home Units Task	Notes
Navigate to the @Home Unit resources. <ul style="list-style-type: none"><li>Select Remote learning: Amplify Science @Home</li><li>Select Grade-level resources → Grade-level → Unit</li></ul>	
How long is each @Home lesson? <a href="#">View Teacher Overview</a>	
Which types of activities are recommended for synchronous and in-person learning? <a href="#">View Teacher Overview</a>	
How many @Home lessons are in Chapter 1 of your unit? <a href="#">View Teacher Overview</a>	
In which lesson is your unit's phenomenon introduced? <a href="#">View Teacher Overview</a>	
How does the @Home Packet for Lesson 1 differ from the @Home Slides for that same lesson? <a href="#">View Student Materials</a>	
When would you use @Home Student Sheets? <a href="#">View Teacher Overview</a>	
How does the @Home Family Overview support caregivers? <a href="#">View Family Overview</a>	
Part 2: @Home Videos Task	Notes
Navigate to the @Home Unit resources. <ul style="list-style-type: none"><li>Select Remote learning: Amplify Science @Home</li><li>Select Grade-level resources → Grade-level → Unit</li><li>Scroll down to the @Home Video Playlist</li><li>Select the lesson in which the problem or phenomenon is introduced</li></ul>	
Describe the phenomenon (or observable event, something that students can see or experience) in your unit.	



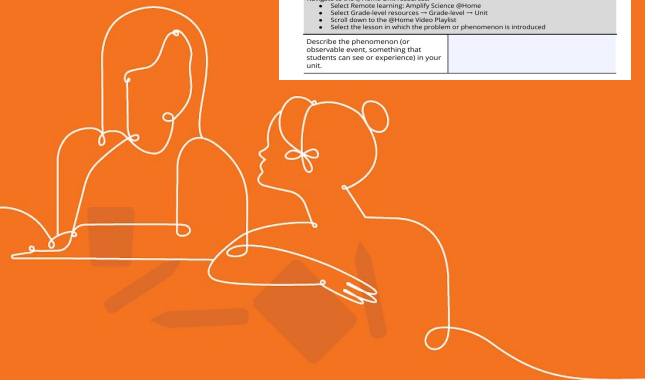
# Review your @Home Video

Navigate to your unit on the Program Hub and explore (if you this is your first time).

OR,

Complete scavenger hunt (if you explored these resources before)

p. 3



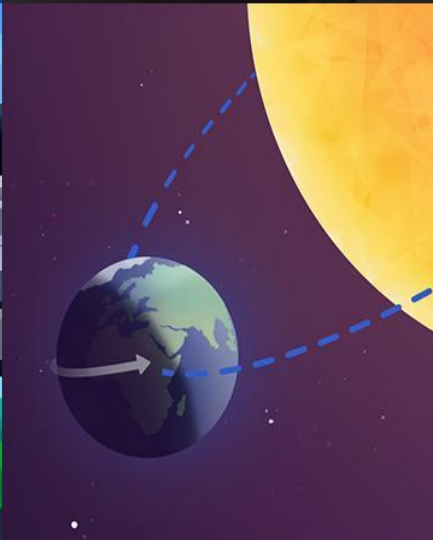
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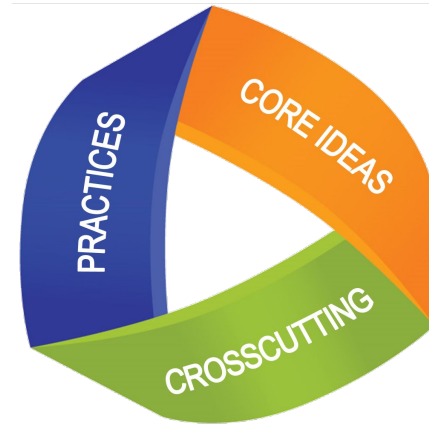
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# @Home Units

## Reduced set of prioritized activities

- Preserves a **coherent** instructional build
- Retains a **multi-modal & 3-D** learning approach
- **Adapted** versions of doing, talking, reading, and writing



# @Home Lesson

## A coherent activity sequence

- **Observe** lesson
- Note **modalities** and science & engineering **practices** that were utilized

**Amplify Science multimodal approach & 3-dimensional learning**

**Coherent activity sequence analysis**

In Amplify Science units, students figure out **phenomena** by using **science and engineering practices**. They gather evidence from **multiple sources** and make explanations and arguments through **multiple modalities**: doing, talking, reading, writing, and visualizing. While we have retained this core approach in the **@Home Lessons**, enacting it at home will require **adaptations**.

Based on the **coherent activity sequence** you've just observed, circle the modalities and science & engineering practices that were utilized in order to promote an **authentic and purposeful context for inquiry**:

Multiple Modalities	
Doing? <input type="checkbox"/>	Talking? <input type="checkbox"/>
Notes:	Notes:
Writing? <input type="checkbox"/>	Reading? <input type="checkbox"/>
Notes:	Notes:
Science & Engineering Practices	
Asking questions and defining problems? <input type="checkbox"/>	Developing and using models? <input type="checkbox"/>
Notes:	Notes:



**Balancing Forces**

**@Home Lesson 8**

We have been trying to figure out:

## **Chapter 2 Question**

Why does the train rise without anything touching it?

AmplifyScience

Balancing Forces Chapter 2 @Home Science Wall

**Chapter 1 Question**

What makes the train rise?

**Key Concepts**

A force acts between two objects.

When an object starts moving or stops moving, that is evidence that a force has acted on it.

**Chapter 2 Question**

Why does the train rise without anything touching it?

**Key Concepts**

Some forces happen between objects that are touching. Other forces happen between objects that aren't touching.

Non-touching forces can act between magnets and some, but not all, other objects.

Magnets can attract or repel other magnets.

Magnets can attract some metal objects.

Remember, the **@Home Science Wall** helps us keep track of what we're learning.



Find the **@Home Science Wall** pages and review the key concepts and vocabulary we can use to talk and write about our ideas.



Some students made a **model** with these materials to get more evidence about why the train rises without anything touching it.





**You will use the Think-Pair Routine to discuss the model and the Chapter 2 Question.**

Your partner can be a family member, a friend or classmate on the phone, or even a pet or stuffed animal!



Why does the train rise  
without anything  
touching it?



How does the model help to explain why the train rises without anything touching it?

You will **write a scientific explanation** to the people of Faraday to help them understand how the train works so they will not be so worried.

## What Is a Scientific Explanation?

1. It answers a question about how or why something happens.
2. It is based on the ideas we have learned from investigations and text.
3. It uses scientific language.
4. It is written for an audience.
5. It describes things that are not easy to observe.



Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Chapter 2: Check Your Understanding

This is a chance for you to reflect on your learning so far. This is not a test. Be open and truthful when you respond.

Scientists investigate in order to figure out how things work. Am I getting closer to figuring out how the floating train works?

I understand why the train rises.       Yes     Not yet

I understand why the train falls.       Yes     Not yet

I understand why the train floats.       Yes     Not yet

I understand why the train changes from floating to falling.       Yes     Not yet

I understand that scientific explanations can change when there is new evidence.       Yes     Not yet

What about the floating train or about forces are you still wondering?

---

---

Make a drawing if it helps you explain your thinking. Label your drawing.



Find and complete the **Chapter 2: Check Your Understanding** page to reflect on what you have learned so far.



# End of @Home Lesson



THE LAWRENCE  
HALL OF SCIENCE  
UNIVERSITY OF CALIFORNIA, BERKELEY

Amplify.

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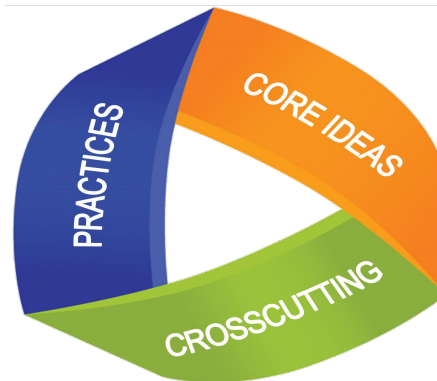
# Reflection

## Coherent activity sequence analysis

- Which **multiple modalities** were students in engaged in? How were they **adapted**?
- Which **science & engineering practices** were students engaged in? How were they **adapted**?

# Crosscutting concepts

- The “**big ideas**” that cut across all the domains
- Serve as useful lens to **integrate** new ideas
- Open next **@home lesson**
- Identify the cross-cutting concepts **collaboratively**

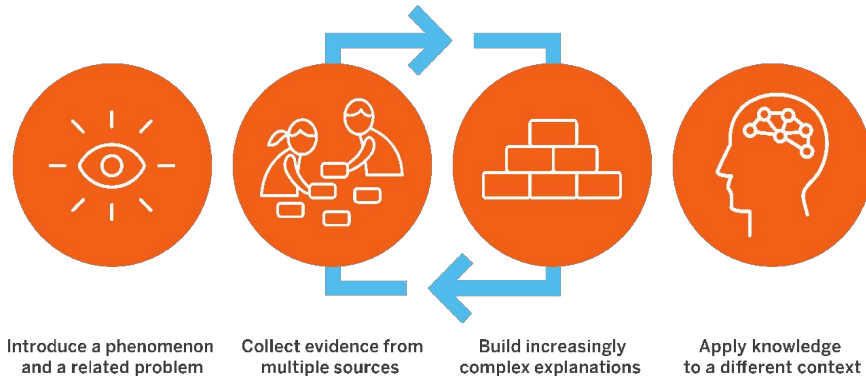


Crosscutting Concepts Analysis	
Navigate to the next @home lesson. Make note of which crosscutting concept(s) scaffold students' understanding and connect it to other ideas about the natural world that they have learned thus far in this particular lesson.	
Patterns? <input type="checkbox"/>	Cause & Effect? <input type="checkbox"/>
Notes:	Notes:
Scale, Proportion, & Quantity? <input type="checkbox"/>	System & System Models? <input type="checkbox"/>
Notes:	Notes:

# Adaptations of multiple-modalities

## Specific routines & additional supports

- How would you adapt different aspects of the **Amplify Science approach** for your learners' **particular contexts**?



### Adaptations of multiple modalities

The @Home Lessons provide general guidance for these adaptations of the multiple modalities in remote/hybrid instructional contexts but you may need to set up expectations for specific routines or provide additional support to your students. Let's brainstorm ideas for how different aspects of the Amplify Science approach might be adapted for your learners' particular contexts.

Modality	Adaptation
Doing	
Talking	
Reading	
Writing	

# Suggestions for synchronous time

## Using the resources

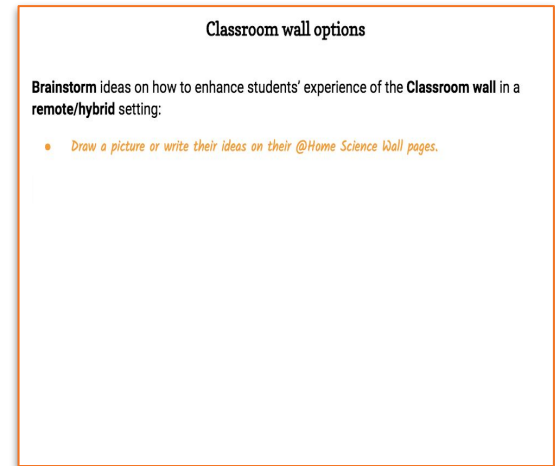
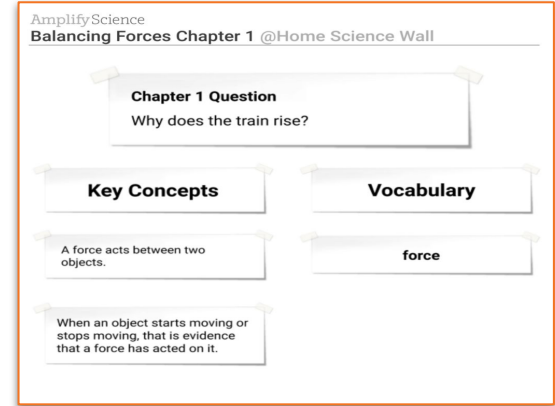
- Leverage synchronous time for live teaching
  - Lots of time? Teach full lessons
  - Less time? Revisit and preview (see table)

Synchronous time	
In-person	Online class
<ul style="list-style-type: none"> <li>● Discourse routines</li> <li>● Class discussions</li> <li>● Hands-on investigations (option for teacher demo)</li> <li>● Physical modeling activities</li> </ul>	<ul style="list-style-type: none"> <li>● Online discussions</li> <li>● Sim demonstrations</li> <li>● Interactive read-alouds</li> <li>● Shared Writing</li> <li>● Co-constructed class charts</li> </ul>

# Classroom wall

## Re-imagined as @Home science wall

- **Chapter Questions, key concepts,** and **vocabulary** that have been introduced so far are provided in the **last lesson** of each chapter.
- How would you enhance students' experience of the **Classroom wall** in a **remote/hybrid** setting?



# @Home science wall

To enhance students' experience of the @Home Science Wall, you could have them:

- Draw a **picture** or write their ideas on their @Home Science Wall pages.
- Highlight or **color** in each question, key concept, or word that is introduced.
- **Cut out** each question, key concept, or word. These can be then posted on a wall, large sheet of paper, or refrigerator at home.
- **Illustrate** each word that is introduced to create a picture glossary.
- If you are meeting with your class remotely, you could create a **virtual @Home Science Wall**.

# Creating a virtual @Home science wall

## If meeting remotely

- **Screenshot** chapter questions, key concepts, vocabulary from **@Home Student sheets**
- Screenshot (from **teacher's guide**) or create own **unit & investigation** questions
- **Animate** new additions
- Now **try** yourself on **Google slides!**

The image shows a virtual science wall layout with several text boxes arranged on a light gray background. The boxes are:

- Unit Question**: What can make an object move or not move?
- Chapter 1 Question**: Why does the train rise?
- Key Concepts**: (empty box)
- Key Concept**: A force acts between two objects
- Vocabulary**: (empty box)
- evidence**
- force**
- investigation**
- observation**



# Classroom Wall

## Unit Question

What can make an object move or not move?

## Chapter 1 Question

Why does the train rise?

## Key Concepts

**Key Concept:** A force acts between two objects

## Vocabulary

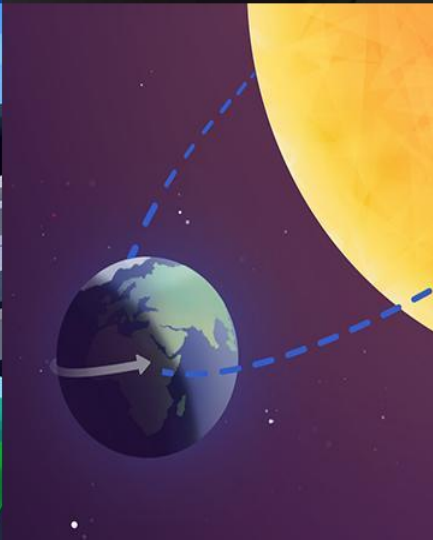
evidence

force

investigation

observation





# Plan for the day

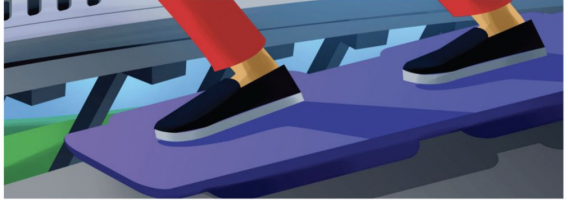
- **Framing the day**
  - Welcome and introductions
  - Anticipatory activity
- **Overview of Amplify Science Approach**
  - Multimodal, phenomenon-based learning
  - 3 dimensions of NYSSLS
- **@Home Resources review**
  - @Home Units
  - @Home Videos
- **Multimodal & 3-D Learning: @Home lesson**
  - Coherent activity sequence analysis
  - Adaptations of multiple modalities
  - Classroom wall
- **Caregivers as partners**
  - Family overview resource
  - Caregivers' site
- **Closing**
  - Reflection & additional resources
  - Survey

# Caregivers as partners

## Supporting practicing multiple modalities & 3-D learning at home

- Editable letter that introduces the **unit** and the kinds of **activities** students will be doing
- Ideas about what **parents and guardians** can do to support their student at home.
- **Unit summary**, Chapter Questions, **key concepts**, unit vocabulary and definitions, and information about **books & hands-on** materials.

AmplifyScience



Balancing Forces  
@Home Unit

Family Overview

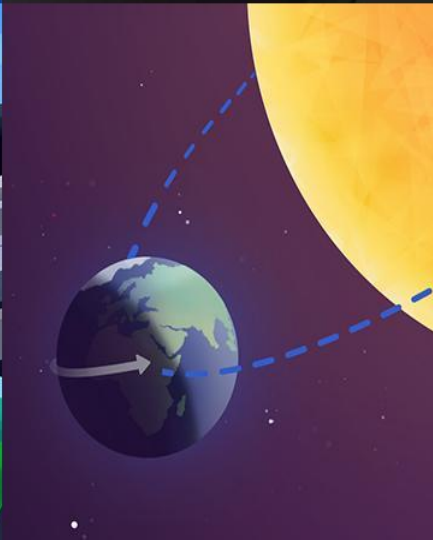
# Caregivers' site

[amplify.com/amplify-science-family-resource-intro/](https://amplify.com/amplify-science-family-resource-intro/)

- Provides your students' **families** information about Amplify Science & optional **extension** activities.
- **Explore** and reflect:
  - How will you utilize these resources to support caregivers?

The image displays two overlapping screenshots of the Amplify Science website. The top screenshot shows the main caregivers' page with a navigation menu, a welcome message, a 'TOP RATED EDUCATORS' badge, and a video player. The bottom screenshot shows a resource page for 'Balancing Forces @Home Unit' with a 'Family Overview' button.





# Plan for the day

- **Framing the day**
  - Welcome and introductions
  - Anticipatory activity
- **Overview of Amplify Science Approach**
  - Multimodal, phenomenon based learning
  - 3 dimensions of NYSSLS
- **@Home Resources review/introduction**
  - @Home Units
  - @Home Videos
- **Multimodal & 3-D Learning: @Home lesson**
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# Revisiting our objectives

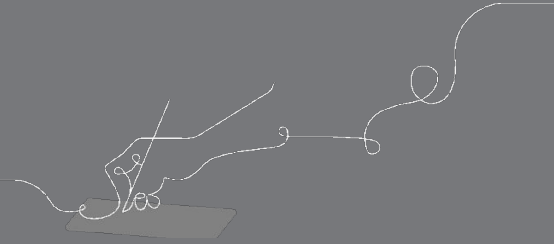
Do you feel ready to to...

- Analyze the role of multimodal and 3-dimensional learning in a coherent @Home lesson activity sequence?
- Adapt multimodal and 3-dimensional instructional routines to your learners' particular instructional contexts?
- Support caregivers as partners in practicing multiple modalities and 3-dimensional learning at home?

**1-** I'm not sure how I'm going to do this!

**3-** I have some good ideas but still have some questions.

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





# New York City Resources Site

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



Amplify.

## Amplify Science Resources for NYC (K-5)

Welcome! This site contains supporting resources designed for the New York City Department of Education Amplify Science adoption for grades K-5.

UPDATE: Summer 2020

Introduction

Getting started resources

Planning and implementation resources

Admin resources

Parent resources

COVID-19 Remote learning resources 2020

Professional learning resources

Questions

UPDATE: Summer 2020

**Account Access:** It's an exciting time for Amplify Science! We have access to the many updates and upgrades in our curriculum until late August/early September when we will update our rosters from STARS.

Any schools or teachers new to Amplify Science in 20/21 are encouraged to contact our Help Desk (1-800-823-1969) for access to your temporary login for summer planning.

**Upcoming PL Webinars:** Join us for our Summer 2020 Professional Learning opportunities in July for NEW teachers and administrators and August for RETURNING teachers and administrators. Links to register coming soon!

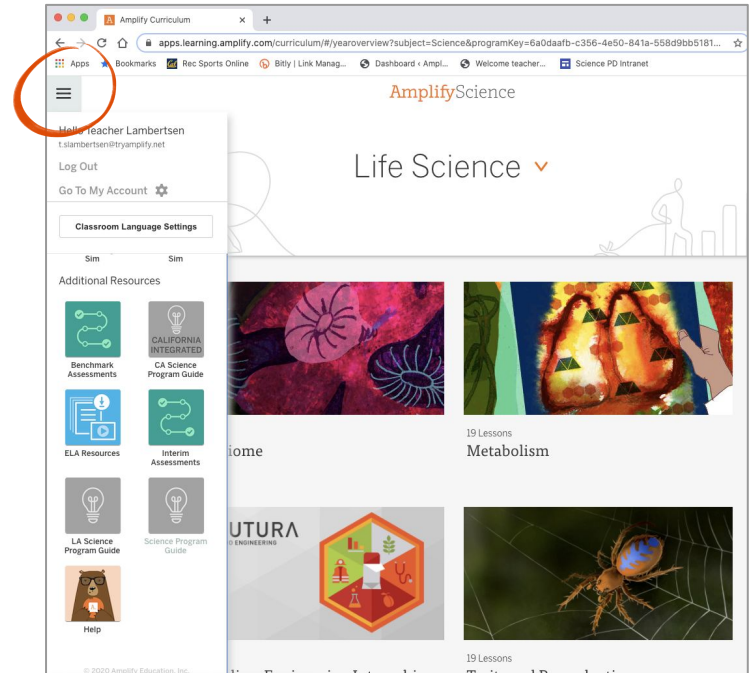
## Site Resources

- Login information
- Pacing guides
- Getting started guide
- NYC Companion Lessons
- **Resources from PD sessions**
- And much more!

# Amplify Science Program Hub

## A new hub for Amplify Science resources

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



# Additional Amplify resources



## **Program Guide**

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

**<https://my.amplify.com/programguide/content/national/welcome/science/>**

## **Amplify Help**

Find lots of advice and answers from the Amplify team.

**[my.amplify.com/help](https://my.amplify.com/help)**

# Additional Amplify Support

## Customer Care

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



scihelp@amplify.com



800-823-1969



Amplify Chat

## When contacting the customer care team:

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

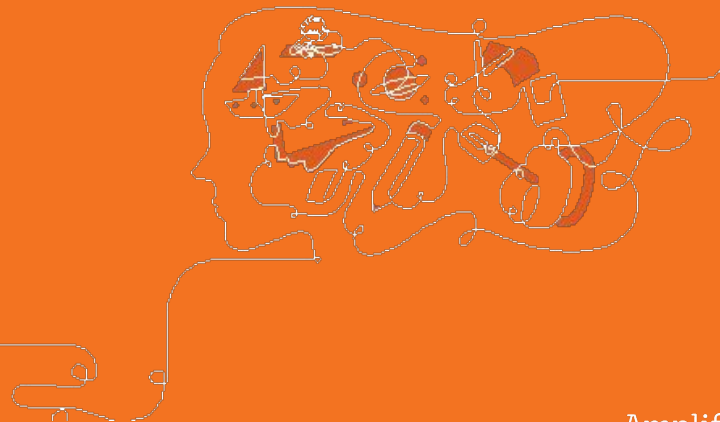


# Final Questions?

# Please provide us feedback!

URL: <https://www.surveymonkey.com/r/BY56SBR>

Presenter name: XXX



30 minute open office hours  
to follow...

