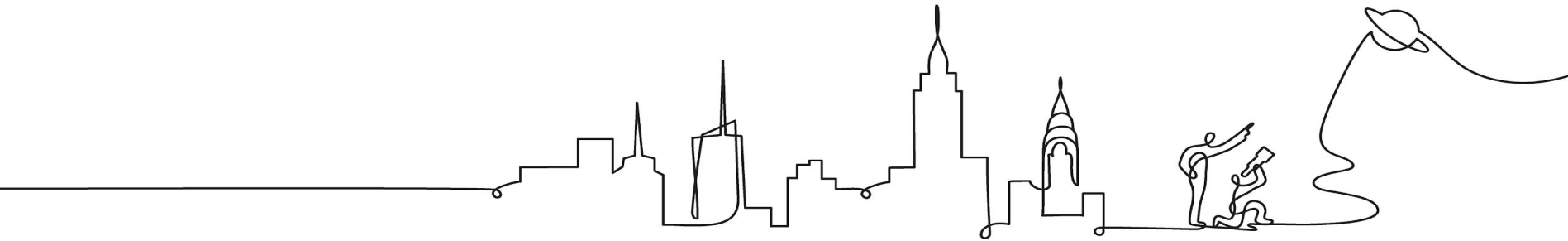


# Amplify Science

New York City

K-5 Returning Administrators  
Planning for the year ahead



# 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

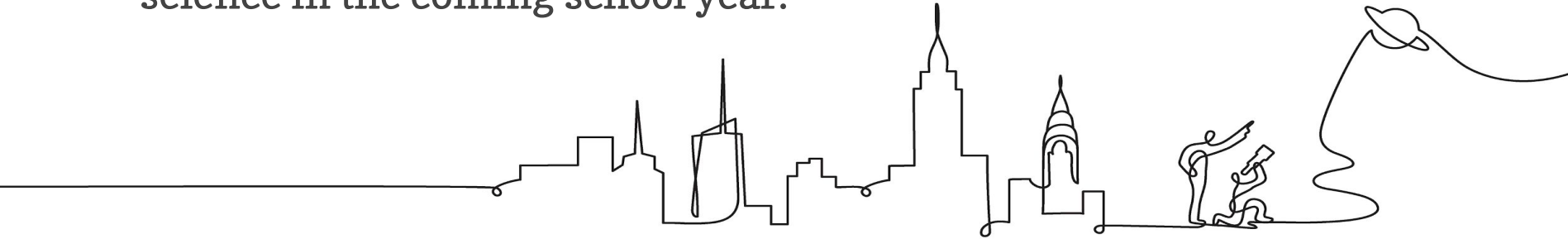


Engage at your comfort level - chat, ask questions, discuss, share!

# Objectives

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

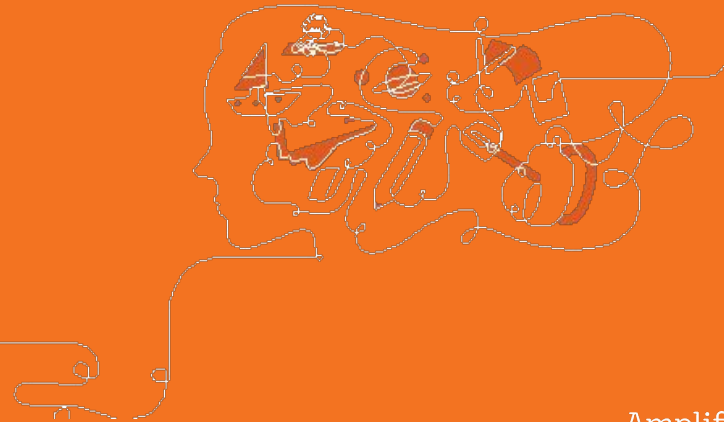
- Make an informed decision about which of the Amplify Science Hybrid Learning Resources will best support your teachers.
- Become familiar with “look fors” that administrators should see in an effective three dimensional science instruction.
- Discuss ways in which administrators can support the teaching of science in the coming school year.



# Plan for the day

- Framing the day
  - Welcome and introductions
  - Reflection and vision setting
  - Back-to-school program updates
  - Revisiting the Amplify Approach
- @Home Resources Introduction
  - @Home Videos
  - @Home Units
- Collaborative Work Time
  - Resource selection
  - Supporting science instruction
- Reflection and closing

# Reflection and Setting a Vision



# Remote Learning Reflection

1-2-3 Stop and jot: Last year, during remote learning...

## Note catcher

Reflection: Teaching remotely last year

One challenge, problem, or roadblock you or your students experienced

Two successes in your teaching

Three things you learned or new insights

# Setting a vision

What are you hoping students get out of science this year?

Cultivate a  
of

Problem solve

Develop flexible  
scientific  
under

Vision setting

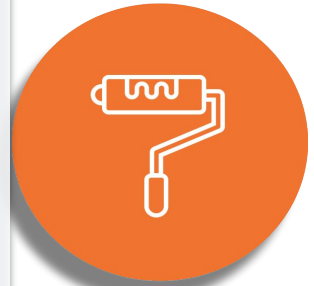
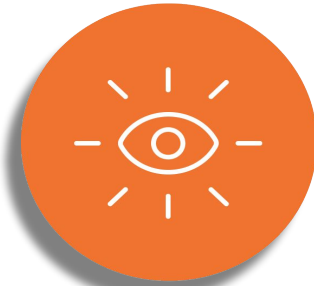
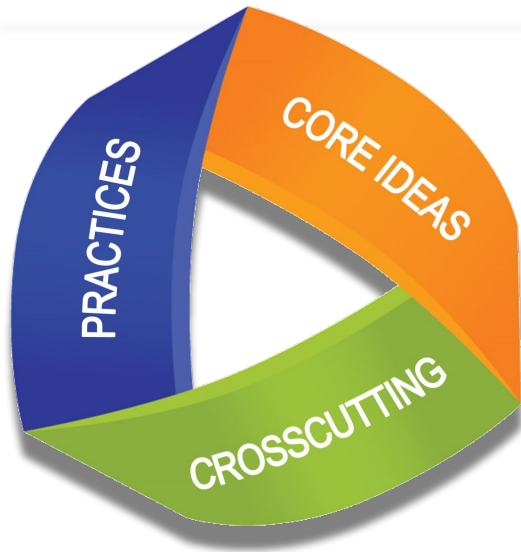
Beginning of the session: Based on your reflection, set a vision for science this year. What do you hope your students will get out of science time?

WORK LIKE REAL  
scientists

academic  
confidence

communicate

# Using three dimensions to figure out

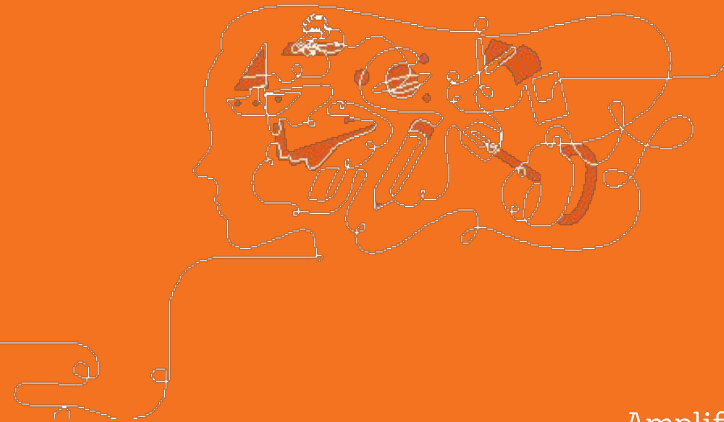


In each Amplify Science unit, students embody the role of a scientist or engineer to figure out phenomena.

They gather evidence from multiple sources, using multiple modalities.



# Back-to-school updates



# Elementary school course curriculum structure

Kindergarten  
and first grade  
lessons are **45  
minutes**

## 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

Second - fifth  
grade lessons  
are **60 minutes**

## 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

**Except The Earth System- All other units have 22 lessons**



PRIMARYLY LIFE SCIENCE



PRIMARYLY PHYSICAL SCIENCE



PRIMARYLY EARTH SCIENCE

	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Minutes per lesson	
<b>K</b>	Needs of Plants and Animals			Pushes and Pulls			Sunlight and Weather				<b>45</b>	
<b>1</b>	Animal and Plant Defenses			Light and Sound			Spinning Earth				<b>45</b>	
<b>2</b>	Plant and Animal Relationships			Properties of Materials			Changing Landforms				<b>60</b>	
<b>3</b>	Balancing Forces		Inheritance and Traits		Environments and Survival		Weather and Climate				<b>60</b>	
<b>4</b>	Energy Conversions		Vision and Light		Earth's Features		Waves, Energy and Information				<b>60</b>	
<b>5</b>	Patterns of Earth and Sky		Modeling Matter		The Earth System (26 lessons)			Ecosystem Restoration				<b>60</b>

All units have 22 lessons except Grade 5: The Earth System, which has 26 lessons.

# Improved Lesson Brief

The improved lesson brief makes it easy for **all K-8 teachers** to access planning content and lesson resources on one smooth, scrollable, page.

**Release Date:** July 1, 2020

The screenshot shows the AmplifyScience interface for Lesson 2.2. At the top, the breadcrumb trail reads: AmplifyScience > Earth's Changing Climate > Chapter 2 > Lesson 2.2. The main header area features a dark blue background with a large, faint white arrow pointing downwards and the text "Lesson 2.2: Reading 'Past Climate Changes on Earth'". Navigation arrows (left and right) are circled in red on either side of the header. Below the header is a progress bar with four steps: 1. Warm-Up, 2. Active Reading: 'Past Climate Changes on Earth', 3. Student-to-Student Discussion: Discussing Annotations, and 4. Homework: Homework. Below the progress bar, there are two buttons: "RESET LESSON" and "GENERATE PRINTABLE LESSON GUIDE". The main content area is divided into two columns. The left column contains a list of menu items: Overview, Materials & Preparation, Differentiation, Standards, Vocabulary, and Unplugged?, which are circled in red. The right column contains the "Overview" section with a paragraph of text and a "Digital Resources" section with a list of links: "Past Climate Changes on Earth", "Printable article: 'Past Climate Changes on Earth'", "Active Reading Guidelines", and "Annotation Tracker Instructions". A small orange envelope icon is located in the bottom right corner of the content area.

# Shared Teacher Login

License owners and managers (principals, APs) can generate Shared Teacher Logins in My Account and distribute to their teachers ahead of data share from district, so that teachers can start planning for 2020-2021. **Also great for paras, ICT teachers, or other support staff not scheduled in STARS.**

The screenshot shows the 'My Account' page in the Amplify system. Under the 'All Shared Logins' section, there is a table with the following data:

	Program Name	Link	Teacher Username	Teacher Password
1	4th Grade	learning.amplify.com	DXBGL	tan-cod
2	5th Grade	learning.amplify.com	DCFEF	cold-lynx
3	6th Grade	learning.amplify.com	BNJW	green-doe

The screenshot shows a 'Shared Teacher Login' modal dialog box overlaid on the 'Amplify Licenses' page. The dialog contains the following text and fields:

Teachers without accounts can use the credentials shown below to preview this Amplify program.

USERNAME: DQFEF (copy)      PASSWORD: cold-lynx (copy)

Teachers log in here  
learning.amplify.com

Select "Log in with Amplify" and enter the username name and password.

**Please note**  
This shared account does not allow for saving notes or reviewing student work.

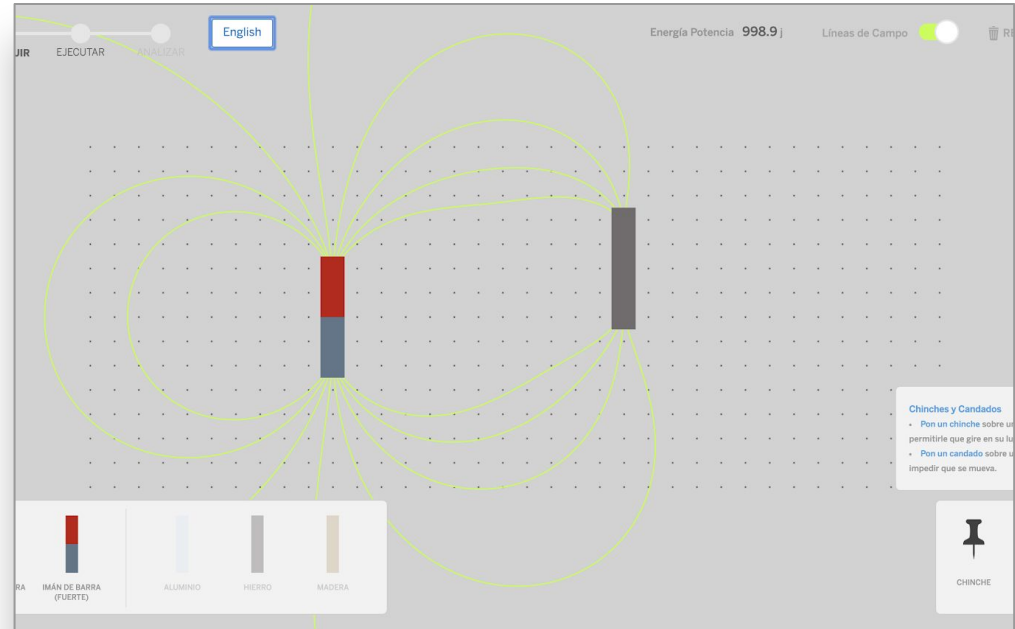
Close



# More Spanish: science apps (2-8)

Spanish translations of science apps began last year, and by this back-to-school the project will be complete.

All Sims, Modeling Tools, and Science Practice Tools will display fully translated text for those **with Spanish add-on licenses**



# Read-Aloud Functionality in Amplify Science Student Books

The image displays a digital interface for a science student book. At the top, a control bar includes a volume slider, a play button, a 1x speed indicator, and a close button. Below this, a large central area shows two pages of a book. The left page (page 6) features a photograph of a person walking a dog in a park at sunrise, with the text: "In spring, we see the **sunrise** when we walk the dog before breakfast. He barks at noisy birds." The right page (page 7) features a photograph of a field of tulips at sunset, with the text: "After dinner in spring, we see the **sunset**. We watch the sky change colors as we walk." The bottom of the interface shows a navigation bar with a series of small thumbnail images representing different pages or topics.



# Student Books

## Read-Aloud Videos



## Read-Aloud videos

Click below to access a playlist of this unit's Student Books being read aloud. Individual read-aloud videos can also be found within lesson playlists that use the book, and as shortened links in the @Home Unit student materials for those lessons. Find the Spanish playlist [here](#).

Amplify

### Grade 3 Balancing Forces\_Hoverboard B...

**What Pulls the Hoverboard Downward?**

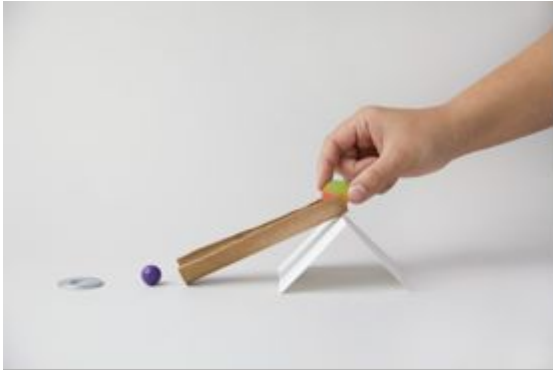
The repelling magnets are pushing the hoverboard upward, away from its ramp. Think about this: Why does the hoverboard float just a little above the ramp? Why doesn't the repelling force of the magnets push the board higher and higher until it floats away? It's because magnets are not the only objects exerting a force on the hoverboard.

Earth pulls objects (including hoverboards) downward with the force of gravity.

There's something pulling the board downward: Earth. Earth pulls everything toward its center. This force is called gravity!

RECORDED WITH  
SCREENCAST MATIC

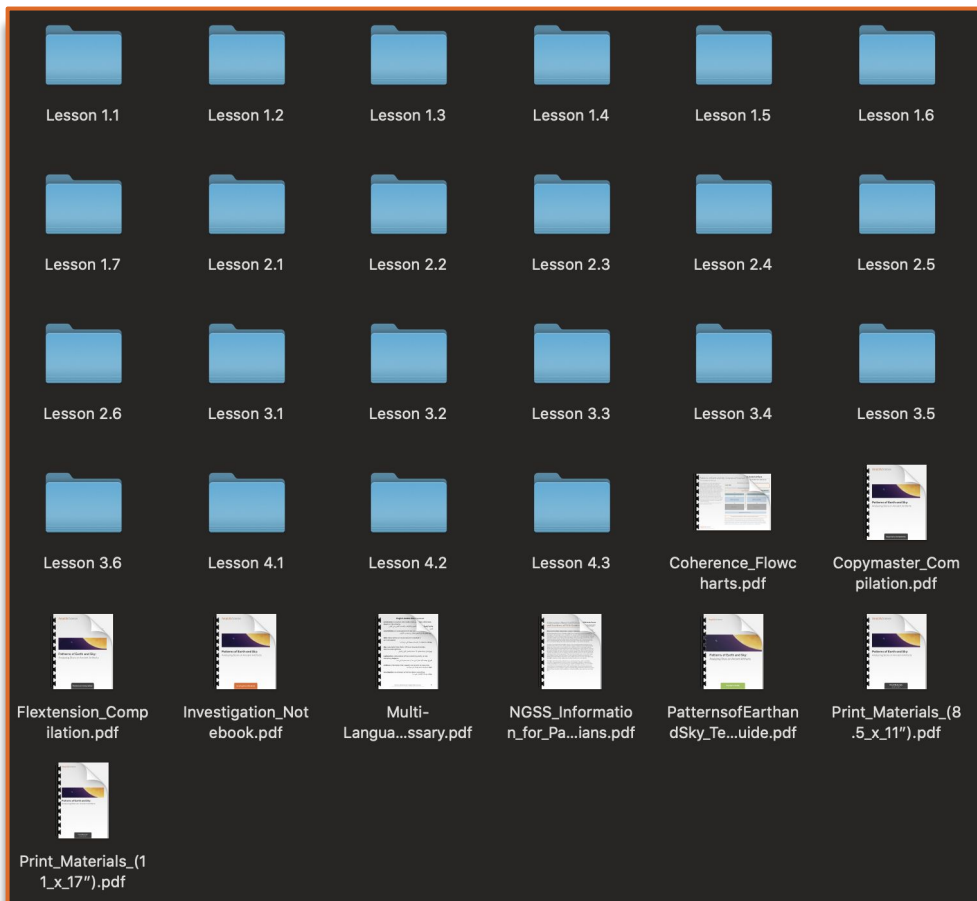
# Hands On Learning Materials



**Lesson 1.2**  
**Making**  
**Blocks**  
**Move**  
**Unit:**  
**Balancing**  
**Forces**



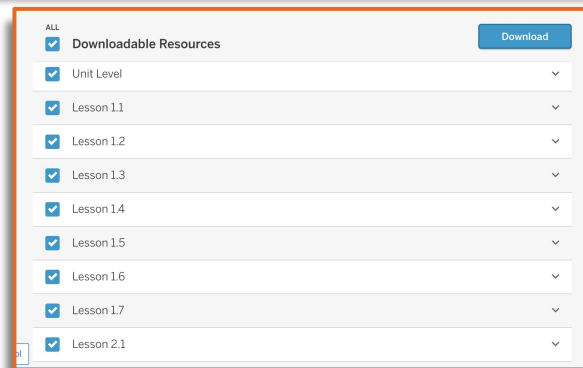
# Shareable Resources



## Offline Preparation

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

Offline Guide

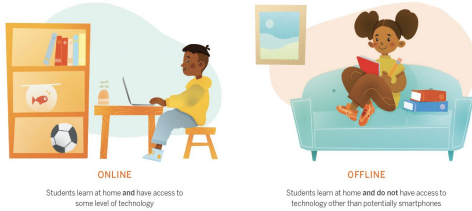


# Plan for the day

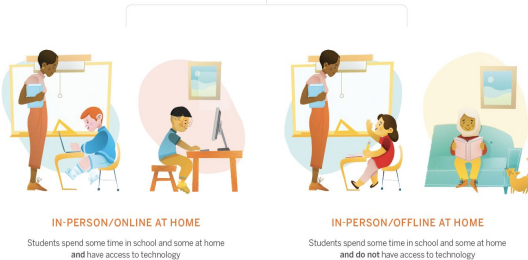
- Framing the day
  - Welcome and introductions
  - Reflection and vision setting
  - Back-to-school program updates
  - Revisiting the Amplify Approach
- @Home Resources Introduction
  - @Home Videos
  - @Home Units
- Collaborative Work Time
  - Resource selection
  - Supporting science instruction
- Reflection and closing

# Remote and hybrid

## Remote learning



## Hybrid learning



authored by



THE LAWRENCE  
HALL OF SCIENCE  
UNIVERSITY OF CALIFORNIA, BERKELEY



# Amplify Science Program Hub



I am a Leader

## 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

[science.amplify.com/programhub](https://science.amplify.com/programhub)

## Amplify Science @Home resources

Overview: Amplify Science@Home		
	Amplify Science@Home Videos	Amplify Science@Home Units
Notes from resource overview		
Notes from exploration		
How could this resource help you achieve the vision you set for this school year?		

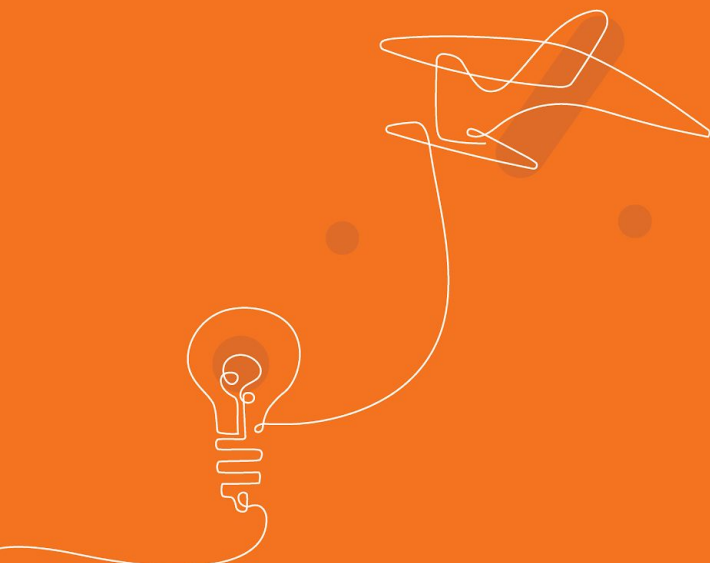


Amplify Science @Home resources

Overview: Amplify Science@Home

# Amplify Science@Home

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



# Stop and Jot

## Ask...

- How much **time** do teachers have to teach science in the upcoming school year?
- How often do you anticipate students will be engaged in **synchronous instruction** (either online or in-person)?
- Do students have **access to technology** at home, or do you need a **print-only solution** for remote learning?

# AmplifyScience@Home

- Built for a variety of instructional formats
- Digital and print-based options
- No materials required
- Available in English and Spanish (student and family materials)
- Accessible on the Amplify Science Program Hub



# 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@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



# Amplify Science Program Hub



I am a Teacher

## 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

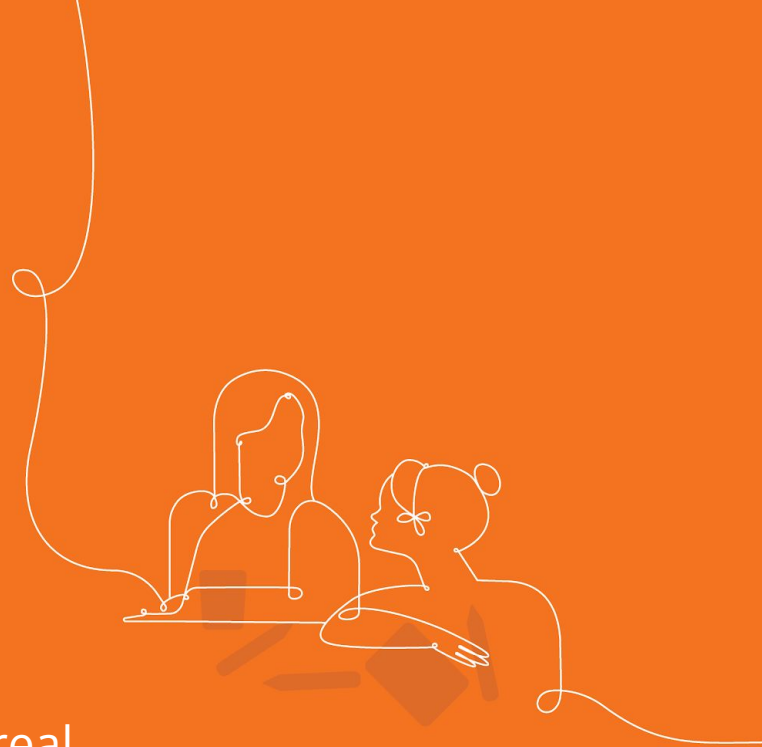
I am a Leader

[science.amplify.com/programhub](https://science.amplify.com/programhub)

# @Home Videos

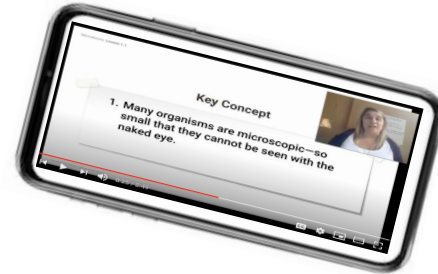
Versions of original Amplify Science lessons adapted for remote learning and recorded by real Amplify Science teachers

	Amplify Science@Home Videos	A
Notes from resource overview		
Notes from exploration		
How could this resource help you achieve the vision you set for this school year?		



# @Home Videos

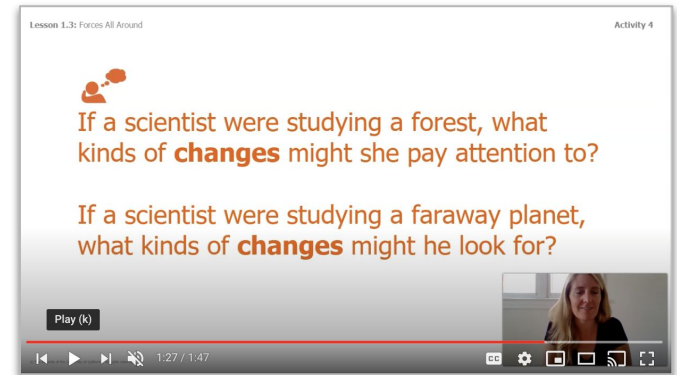
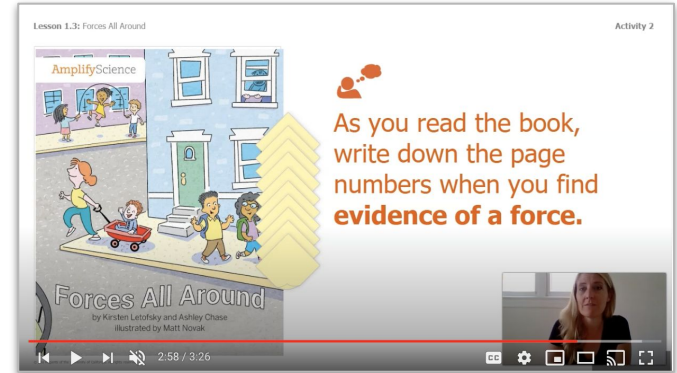
- Lesson playlists include **all activities** from original units
- Great option if have the **same amount of instructional time** as you typically would for science
- Requires **tech access** at home
- Use videos as **models for making your own lesson videos** or leading **online science class**





# Interactive video experience

- Calls to action
  - Think prompts, pause and take notes, stand up and try it, talk to someone
- Stand-alone videos within lesson playlists
  - Read-alouds, digital tool uses, hands-on
- Options to use notebooks and/or materials if available



# Example lesson: *Balancing Forces* 2.2

AmplifyScience > Balancing Forces > Chapter 2 > Lesson 2.2

## Lesson 2.2: What Objects Do Magnetic Forces Act On?

Grade 3 | Balancing Forces

## Lesson 2.2: What Objects Do Magnetic Forces Act On?



Lesson Brief  
(3 Activities)

1

HANDS-ON  
Investigating What Objects  
Magnetic Forces Act On



2

TEACHER-LED DISCUSSION  
Discussing What Objects  
Magnetic Forces Act On



3

READING  
Reading: Handbook of  
Forces



# Example lesson: *Balancing Forces 2.2*

The screenshot shows a YouTube video player interface. At the top left is the YouTube logo. A search bar is located at the top center. On the right side of the top bar are icons for video quality, a grid, a notification bell, and a profile picture. The main video player area on the left displays a video thumbnail with the text "Grade 3 | Balancing Forces Lesson 2.2: What Objects Do Magnetic Forces Act On?" and a "PLAY ALL" button. Below the video player, the title "Grade 3 Balancing Forces Chapter 2 Lesson 2.2" is shown, along with "4 videos • 2 views • Updated 4 days ago". There is an "Unlisted" tag and a set of sharing icons. At the bottom left is the Amplify logo, and at the bottom right is a red "SUBSCRIBE" button. On the right side of the interface, a list of four related videos is displayed, each with a thumbnail, a number, a title, a duration, and the Amplify logo.

YouTube

Search

Grade 3 | Balancing Forces  
Lesson 2.2: What Objects Do Magnetic Forces Act On?  
PLAY ALL

Grade 3 Balancing Forces Chapter 2 Lesson 2.2

4 videos • 2 views • Updated 4 days ago

Unlisted

Amplify

SUBSCRIBE

- 1 Grade 3 Balancing Forces Chapter 2 Lesson 2.2 Activity 1 Part A  
9:45 Amplify
- 2 Grade 3 Balancing Forces Chapter 2 Lesson 2.2 Activity 1 Part B  
1:59 Amplify
- 3 Grade 3 Balancing Forces Chapter 2 Lesson 2.2 Activity 2  
4:21 Amplify
- 4 Grade 3 Balancing Forces Chapter 2 Lesson 2.2 Activity 3  
2:28 Amplify

# Example lesson: *Balancing Forces* 2.2

1

HANDS-ON

Investigating What Objects  
Magnetic Forces Act On



1



Grade 3 Balancing Forces Chapter 2  
Lesson 2.2 Activity 1 Part A

Amplify

2



Grade 3 Balancing Forces Chapter 2  
Lesson 2.2 Activity 1 Part B

Amplify

2

TEACHER-LED DISCUSSION

Discussing What Objects  
Magnetic Forces Act On



3



Grade 3 Balancing Forces Chapter 2  
Lesson 2.2 Activity 2

Amplify

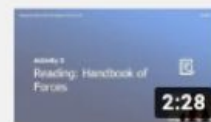
3

READING

Reading: Handbook of  
Forces



4



Grade 3 Balancing Forces Chapter 2  
Lesson 2.2 Activity 3

Amplify

# @Home Videos

## Using the resources

- Assign videos for students to watch during remote, asynchronous time
- Leverage synchronous time for live teaching
  - Lots of time? Teach full lessons
  - Less time? Revisit and preview (see table)

## Synchronous time

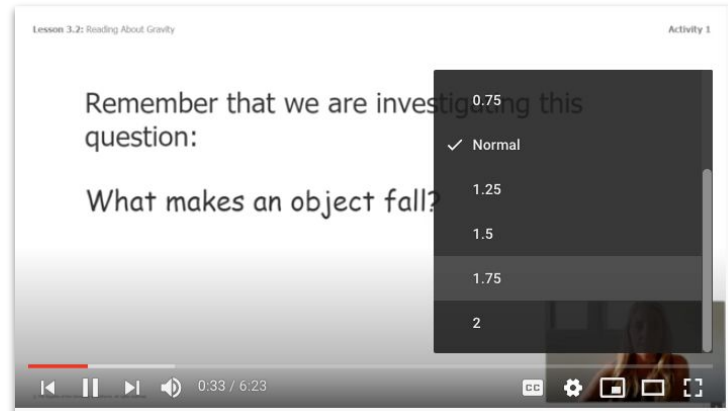
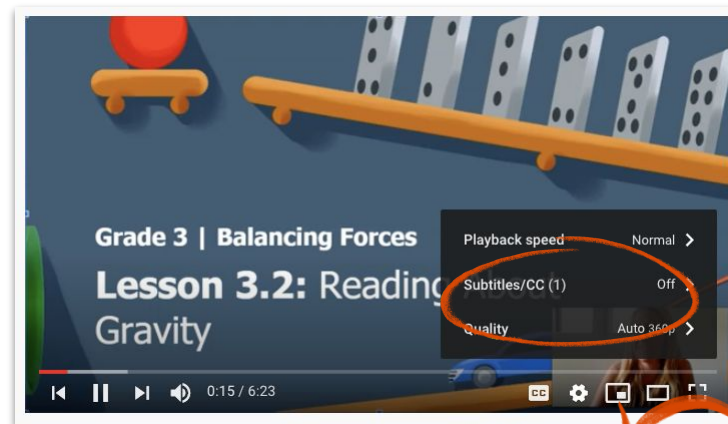
- **Online discussions**
- **Hands-on investigations (option for teacher demo)**
- **Sim demonstrations**
- **Interactive read-alouds**
- **Shared Writing**
- **Co-constructed class charts**

# Planning suggestions: @Home Videos

The Teacher's Guide is the best planning tool for @Home videos.

- Use the **Lesson Overview Compilation** in the Unit Guide as a pacing and planning tool.
- Refer to the lessons themselves to plan for synchronous instruction.

Try **adjusting the playback speed** of videos to preview them.

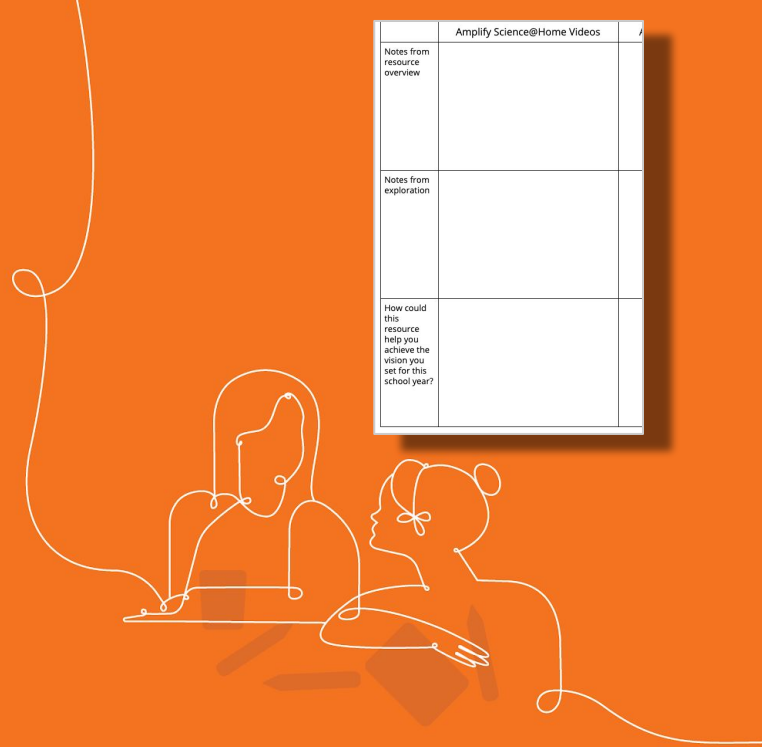


# Explore your @Home Videos

Navigate to the Program Hub and explore a video lesson. You may want to compare the video lesson to the lesson in the Teacher's Guide.

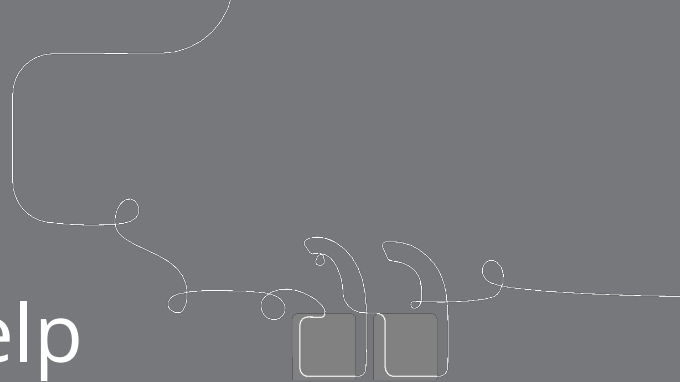
During your work time, consider how this resource can help you reach the vision you set for science this year.

Amplify Science@Home Videos	
Notes from resource overview	
Notes from exploration	
How could this resource help you achieve the vision you set for this school year?	



# Reflect and Share

How could @Home Videos help you and your teachers achieve the vision you set for science this school year?



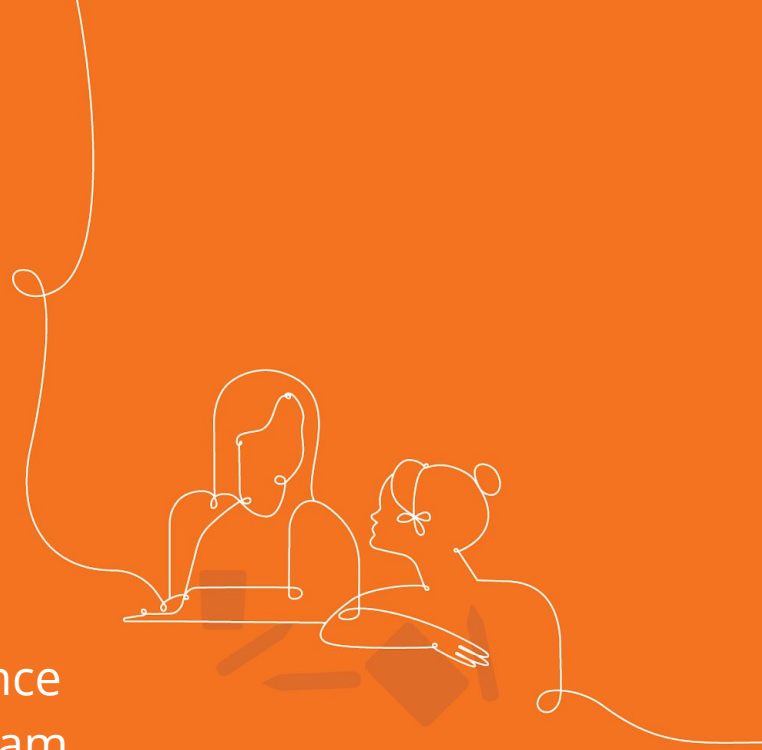
## Questions?



Amplify Science@Home Units

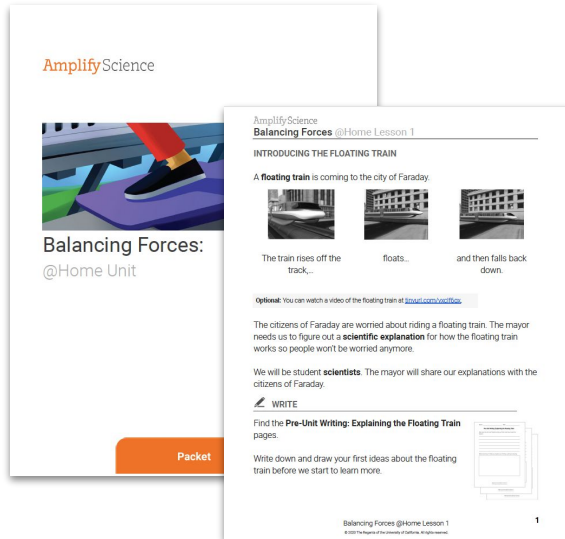
# @Home Units

Strategically modified versions of Amplify Science units, highlighting key activities from the program

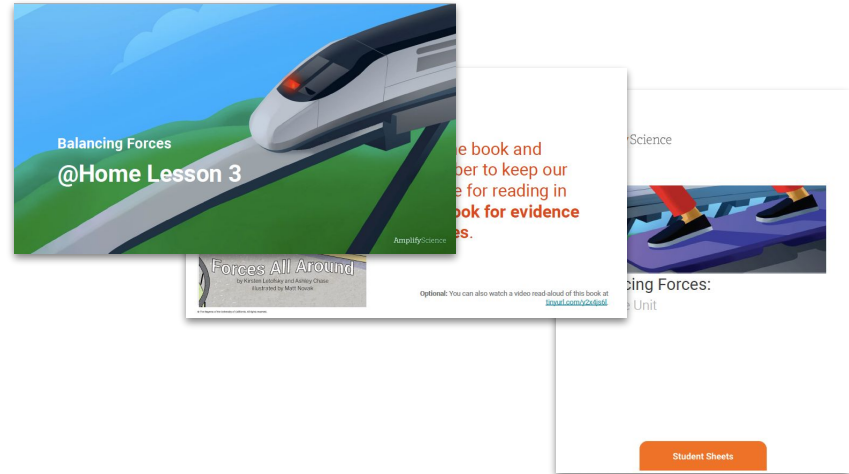


# @Home Units

- Solution for reduced instructional time
- **Two** options for student access



**@Home Packets:**  
print-based

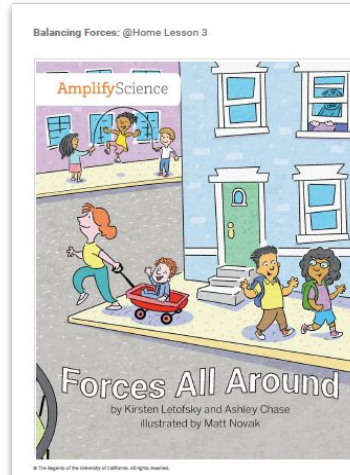


**@Home Slides and Student Sheets:** tech-based

# Options for student access

## Embedded links to videos:

- Hands-on demonstrations
- Digital tool activities
- Read-alouds



We've been investigating to find out: **What makes an object start to move?** We will gather more evidence today by reading a book, *Forces All Around*. **Check with your teacher** about how you will access books in this @Home Unit.



### READ

As we read the book, we will have a **purpose for reading**. Our purpose is to look for evidence of forces.

For example, in the picture on page 3, we can see a ball bouncing off the desk. Something made the ball start moving, so there must have been a force.

Read the book and **look for evidence of forces**. We can find evidence in words and pictures.

Optional: You can watch a video read-aloud of this book at [tinyurl.com/y2x4js6f](https://tinyurl.com/y2x4js6f).



Read the book and remember to keep our purpose for reading in mind: **look for evidence of forces**.

Optional: You can also watch a video read-aloud of this book at [tinyurl.com/y2x4js6f](https://tinyurl.com/y2x4js6f).



# Options for student access

## Alternative to embedded video links

### Access via curriculum:

- Digital tools (Grades 2-8)
- Digital books (Grades K-5)

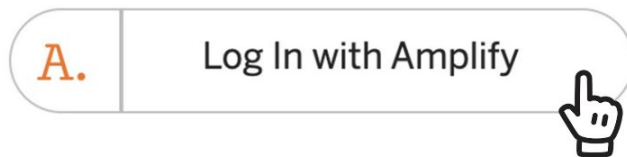
## Hands-on demos accessible only via embedded YouTube links

The image displays the AmplifyScience interface. At the top, the logo 'AmplifyScience' is visible. Below it is a grid of six science topics, each with a representative image and a title: 'Sunlight and Weather' (two children on a bench), 'Needs of Plants and Animals' (a butterfly and a watering can), 'Pushes and Pulls' (a hand pulling a string), 'Spinning Earth' (the Earth from space), 'Animal and Plant Defenses' (a turtle), and 'Energy Conversions' (a light bulb). The 'Energy Conversions' topic is selected, and a detailed view of the simulation is shown. This view includes a 'Simulation' section with a large orange '1' icon, a 'Science Practice Tools' section with two blue '1' and '2' icons, and two sections of 'Student Books' and 'Libros para estudiantes', each with six purple icons numbered 1 through 6. The icons in the 'Libros para estudiantes' section have small text labels below them: '1. Energía', '2. Energía en el pasado y en el presente', '3. Tipos de energía', '4. Luz solar y electricidad', '5. Recursos', and '6. ¿Cómo planea su hogar futuro?'.

# apps.learning.amplify.com/elementary



2. Select **Log In with Amplify**



3. Enter the shared **username** and **password** in the fields provided.

Shared usernames based on grade:

- Grade K: nycK
- Grade 1: nyc1
- Grade 2: nyc2
- Grade 3: nyc3
- Grade 4: nyc4
- Grade 5: nyc5

Shared password: **science1** (New in 20/21)

Welcome to **Amplify**

Username

Password [Forgot Password?](#)

[Go Back](#) [Log In](#)

# @Home Unit resources

All resources are fully editable and customizable

- **Family Overview**
  - Provides context for families
- **Teacher Overview**
  - Outlines the unit and summarizes each lesson
  - Suggestions for adapting for different scenarios
- **Student materials**
  - ~30-minute lessons (slide decks or packets) featuring prioritized activities from Amplify Science curriculum

# Example lesson: *Balancing Forces 2.2*

AmplifyScience > Balancing Forces > Chapter 2 > Lesson 2.2

The main content area features a large, stylized image of a red and black dumbbell. A horizontal orange bar is superimposed over the center of the dumbbell. The text "Lesson 2.2: What Objects Do Magnetic Forces Act On?" is written in white over the orange bar. A white left-pointing chevron is on the left side of the orange bar.

## Lesson 2.2: What Objects Do Magnetic Forces Act On?

<

Lesson Brief (3 Activities)	<	1 HANDS-ON Investigating What Objects Magnetic Forces Act On	2 TEACHER-LED DISCUSSION Discussing What Objects Magnetic Forces Act On	3 READING Reading: Handbook of Forces
--------------------------------	---	--	---	---

# @Home Lesson 5: Combines 2.1 and 2.2

## @Home Lesson 5

Adapted from: Amplify Science *Balancing Forces* Lessons 2.1 and 2.2

### Key Activities

- **Introducing the Chapter 2 Question:** Students review what they have figured out about the floating train, and are introduced to the Chapter 2 Question.
- **Do:** Students investigate non-touching forces, using any magnets they have on hand and other everyday materials.
- **Talk:** Students discuss evidence of non-touching forces and patterns in what objects are moved by magnets.

### Ideas for synchronous or in-person instruction

Before meeting, have students complete the hands-on investigation. When meeting, have students share their observations and ideas. If meeting in person, you might also have students extend their hands-on exploration with materials from the *Balancing Forces* kit (as in *Balancing Forces* Lesson 2.1, Activity 1) before discussing findings.



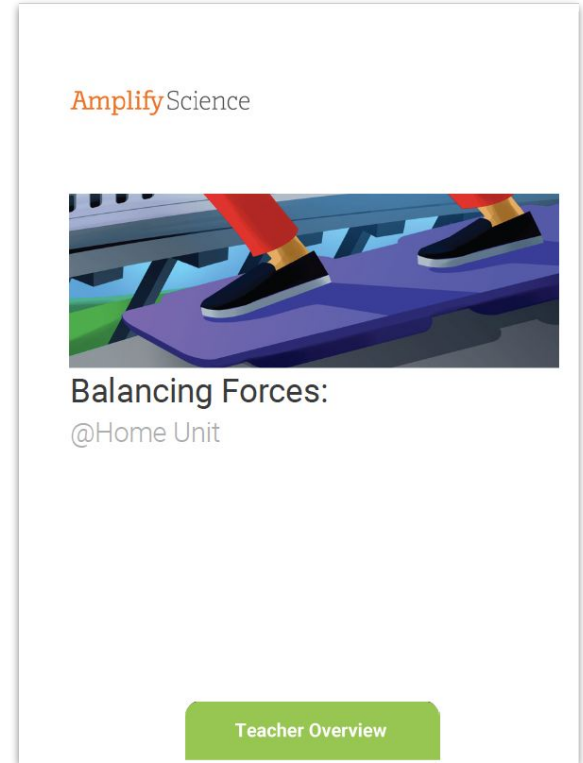
# Teacher Overview

## Unit-level

- Overview of resources
- Pacing
- Planning for instructional routines
- Assessment considerations

## Lesson-level

- Chapters at a glance
- Lesson outlines

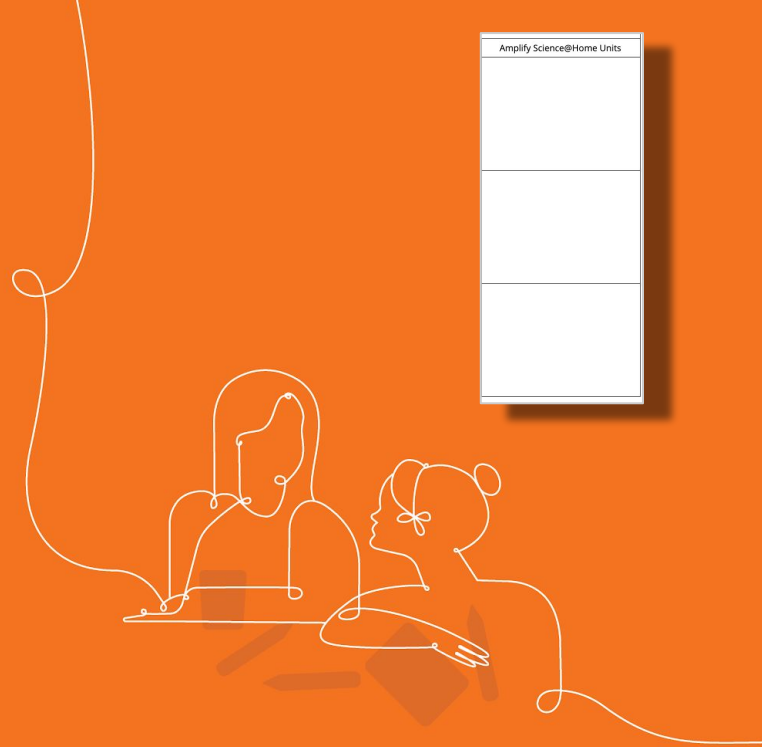
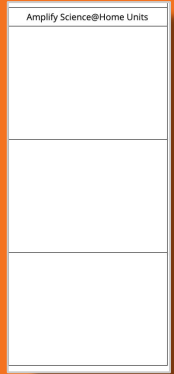


\*Appendix provides the student investigation notebook pages that go with each lesson.

# Explore your @Home Unit

Navigate to Harnessing to the Program Hub and explore. You may choose to start with the **Family Overview**.

During your work time, consider how this resource can help you reach the vision you set for science this year.



# Share insights

How could @Home Units help you and your teachers reach the vision you set for science this school year?



Amplify Science @Home resources

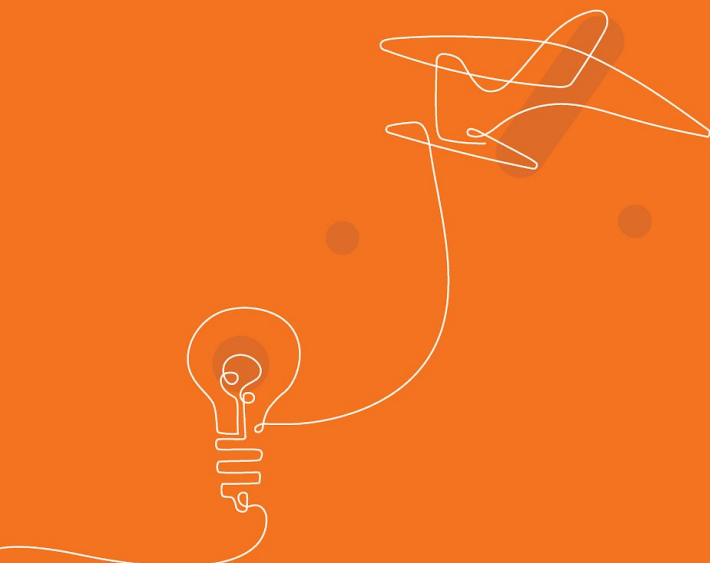
Overview: Amplify Science@Home

	Amplify Science@Home Videos	Amplify Science@Home Units
Notes from resource overview		
Notes from exploration		
How could this help you achieve the science you set for this school year?		

## Questions?

# Plan for the day

- Framing the day
  - Welcome and introductions
  - Back-to-school program updates
  - Reflection and vision setting
  - Revisiting the Amplify Approach
- @Home Resources Introduction
  - @Home Videos
  - @Home Units
- Collaborative Work Time
  - Resource selection
  - Supporting science instruction
- Reflection and closing



Amplify Science @Home resources

Overview Amplify Science@Home



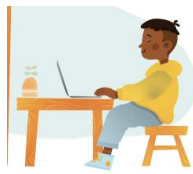




	Amplify Science@Home Videos	Amplify Science@Home Units
Notes from resource overview		
Notes from exploration		
How could this resource help you achieve the outcomes set for this school year?		

# Using the resources

Sample instructional scenarios

# Sample instructional scenario




## Hybrid pod model

	M-T	W	Th-F
Pod 1	In class 	Remote online class 	Remote 
Pod 2	Remote 	 	In class 

# Sample instructional scenario

## Hybrid pod model

Select 1-2 lessons for the week and decide the best instructional format for the different parts of the lesson

<b>In class</b> 	<b>Remote online class</b> 	<b>Remote</b> 
<ul style="list-style-type: none"><li>● Hands-on investigations (option for teacher demo)</li><li>● Discourse routines</li><li>● Class discussions</li><li>● Physical modeling activities</li></ul>	<ul style="list-style-type: none"><li>● Sim demonstrations</li><li>● Read-alouds</li><li>● Shared Writing</li><li>● Co-constructed class charts</li></ul>	<ul style="list-style-type: none"><li>● @Home video lessons</li><li>● @Home Unit activities</li><li>● Reflective writing</li><li>● Independently review</li></ul>

# @Home Resources example use case

## Hybrid Model: Teach live during in-person/synchronous time



Day 1

*Remote*

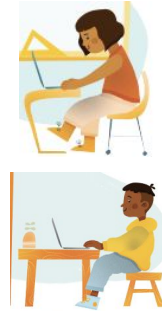
Assign: Lesson 1.1  
@Home Video



Day 2

*In-person*

Teach: Lesson 1.2  
live



Day 3

*Synchronous*

Teach: Lesson 1.3  
using clips from  
@Home Video



Day 4

*Remote*

Assign: Lesson 1.4  
@Home  
Packet/Slides



Day 5

*In-person*

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



# @Home Resources example use case

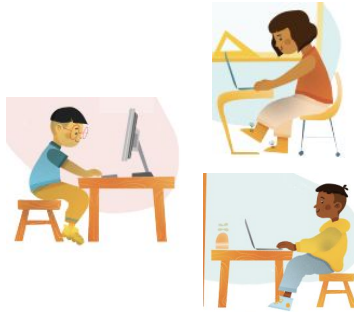
## Remote Model: with synchronous & asynchronous learning



Days 1 & 2

*Asynchronous*

Assign: Lesson 1.1 @Home Video and sheets for students to work through on their own



Day 3

*Synchronous*

Teach: Lesson 1.2 using clips from the @Home Video



Day 4

*Asynchronous*

Assign: Lesson 1.3 @Home Packet or @Home Slides for students to work through on their own



Day 5

*Synchronous*

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

# Sample instructional scenario

**Remote Asynchronous Model: Students work flexibly through content**



**Monday-Thursday**

Assign 1-2 @Home Lessons (packet or slides) or @Home videos



**Friday**

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

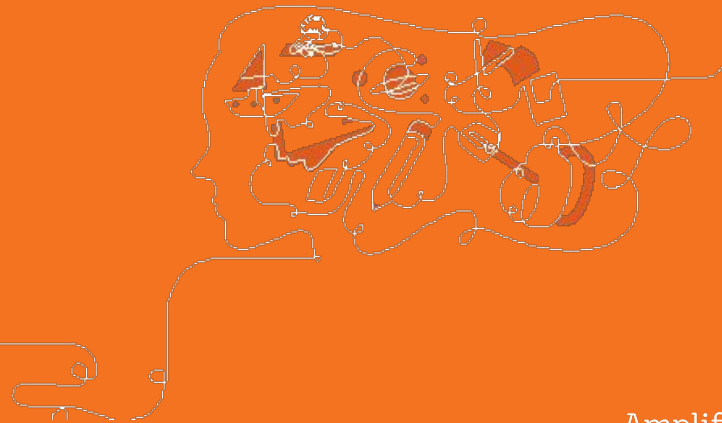


# Let's Discuss

How might you suggest teachers use these resources to teach students during remote/hybrid learning?



# Administrator resources for supporting science instruction



# Getting Started Look-For Tool

## Amplify Science: Getting started look-for tool

**Look for #1: Students are accessing the resources:** This category is intended to highlight visible signs of using the Amplify Science curriculum. These observations can be made over 5-10 minutes or longer.

Sample evidence through observations and questions	Notes and observations
<p><b>Classroom environment look-fors:</b></p> <ul style="list-style-type: none"> <li>Classroom wall</li> <li>Co-constructed charts</li> <li>Established routines for ease of access to resources</li> <li>Projections and posters are clear</li> </ul> <p><b>Student look-fors:</b></p> <ul style="list-style-type: none"> <li>Referencing classroom wall resources as appropriate</li> <li>Accessing digital tools, print, and physical resources with ease</li> </ul>	

**Multiple sources to Investigate Phenomena.** This category is intended to highlight 3-D learning. These look-fors need at least 15 minutes to a full

lesson you are observing for the specific core ideas, crosscutting concepts and

figuring out phenomena like a scientist, engaged in 3-D learning. You will visualize, during which they use academic language and unit words to opportunities to construct understanding.

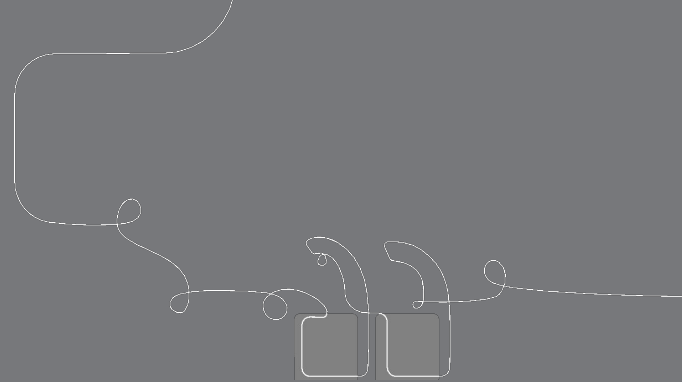
Notes and observations

**Progress Build.** This category is intended to highlight how students are working, across multiple class periods within a unit.

How students constructing increasingly complex explanations over time. You will observe in response to assessment. Over time, students working towards meeting

Notes and observations

<p><b>Student Questions to ask:</b></p> <ul style="list-style-type: none"> <li>What are you figuring out today?</li> <li>What can you tell me about the chapter question?</li> <li>How did you figure that out? What is your evidence?</li> </ul>
---



# Questions?



## Look-For Tool Reflection

- What do you find most helpful about this tool?
- What might you adjust to make it work better for you?

# Questions?

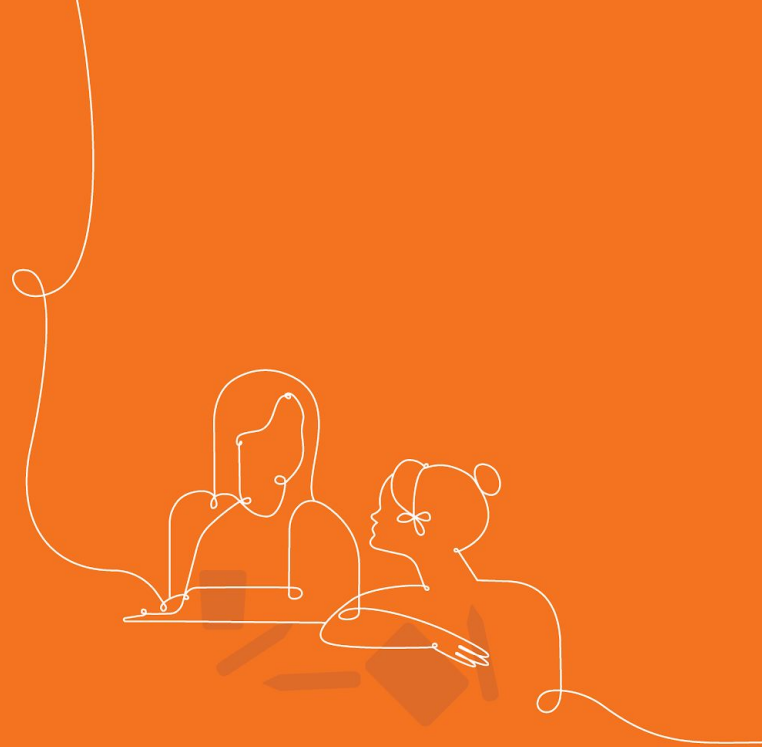




# Plan for the day

- Framing the day
  - Welcome and introductions
  - Back-to-school program updates
  - Reflection and vision setting
  - Revisiting the Amplify Approach
- @Home Resources Introduction
  - @Home Videos
  - @Home Units
- Collaborative Work Time
  - Resource selection
  - Supporting science instruction
- Reflection and closing

# Closing

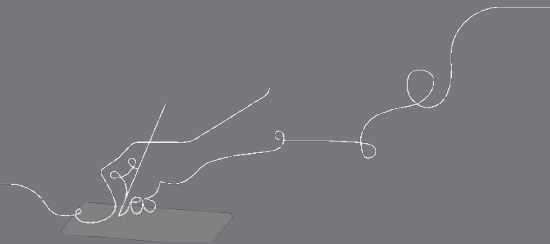


# Vision Reflection

Revisit the vision you set at the beginning of this session.

How will the Amplify Science@Home help you reach that goal?

e



# Revisiting our objectives

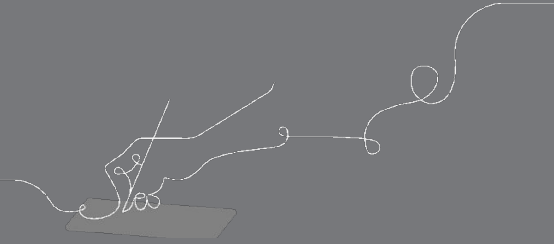
Are you able to...

- Make an informed decision about which of the Amplify Science Hybrid Learning Resources will best support your teachers?
- Become familiar with “look fors” that administrators should see in an effective three dimensional science instruction?
- Discuss ways in which administrators can support the teaching of science in the coming school year?

**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.

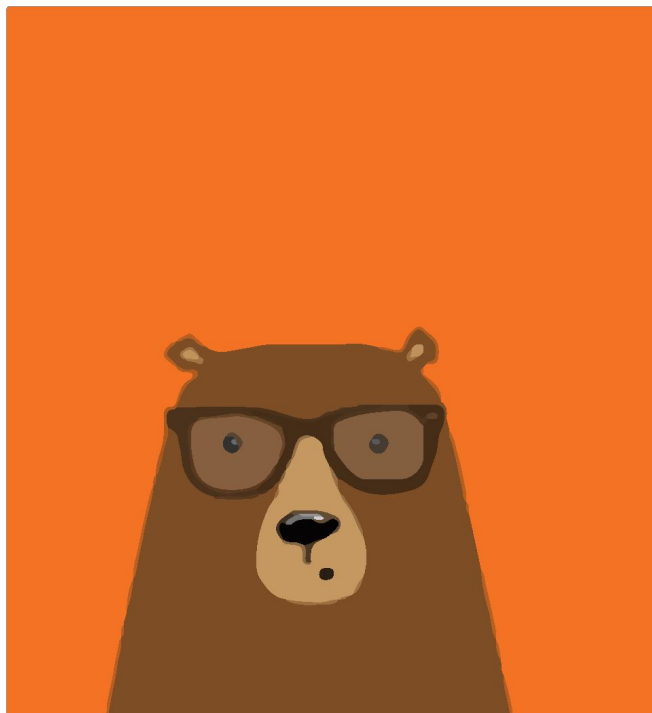
Any schools or teachers new to Amplify Science in 20/21 are encouraged to contact our Help Desk (1-800-823-1969) for access to your temporary login for summer planning.

**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!

# 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.

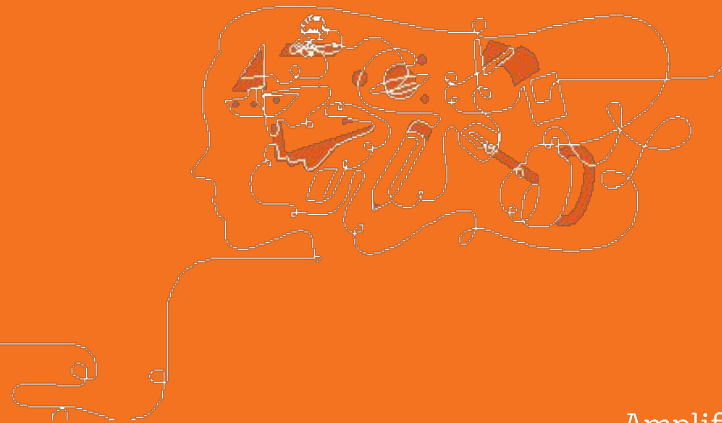
# Please provide us feedback!

**URL:** <https://tinyurl.com/AmplifyPD20-21>

**Presenter name:** XXX

**Workshop title:** Navigating Program Essentials (K-5)

**Modality:** Remote







# Addressing Hands-on

For both @Home Slides and @Home Packets, activities which require specific physical materials have been modified or made **optional**. *Note: student resources include information about how to access videos (links are provided in packets and slides) of these activities, which can be viewed on any digital device, including smart phones.*

## Additional Suggestions

- Do the activity with simple materials students are likely to have at home (for activities where this is feasible, instructions are provided.)
- Watch a video. (For many hands-on activities in the @Home Units, a video / images of the investigation is provided.)
- Do the activity using kit materials if available. For example,
  - If possible, send home materials to students who need them.
  - If you have access to your Amplify Science kit, and have opportunities to teach synchronously, demonstrate some hands-on activities with student input.

# Addressing Student Talk

## Suggestions

- Talk to someone in their household about their ideas
- Talk to a stuffed animal or pet about their ideas
- Call a friend and discuss their ideas
- Talk in breakout groups in a video class meeting

# Addressing Student Writing

## Suggestions

- Write in a designated science notebook
- Photograph writing and submit digitally
- Complete prompts in another format (Teachers can convert prompts so they are completed in an on-line survey or a writable sheet so students can submit digitally.)
- Submit audio or video responses digitally, rather than submit a written response.
- Share a response orally with a family member or friend with no submission required.
- 6-8, For students with technology access, complete written work in the Amplify Science app (links to corresponding student activities are provided in the @Home Slides).

# Addressing Student Reading

## Suggestions

- Read physical books/printed articles (Teacher would provide copies for some or for all students)
- Read books/articles in a digital format via the Elementary Apps page/library
- Listen to the digital book/articles being read aloud
- Watch videos of a book/article read aloud using a digital device (phone, tablet, or computer)
- Read with a family member, partner, or classmate.
- Grades 2-5, Use the optional Getting Ready to Read pages, Reading Reflection pages, and Multiple Meaning Words pages from the *Balancing Forces* Investigation notebook. (Note that some of these have been included in @Home reading lessons, but you may consider adding others for a more robust experience with the student books.)

# Addressing the Classroom Wall

A complete list of chapter questions, key concepts, and vocabulary that have been introduced so far are provided in the last lesson of each chapter; these are on student sheets in the @Home Packet and on slides in the @Home Slides. 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.
- Have students illustrate each word that is introduced to create a picture glossary.

Additionally, if you are meeting with your class remotely, you could create a virtual @Home Science Wall.

# Addressing Assessment

Each chapter outline contains considerations for assessment and feedback in the Amplify Science units, and in some cases, the pre-unit and end-of-unit assessments. Generally, we recommend the following:

- You may need to adapt the format in which you collect student work. See the “Student writing options” above.
- When providing feedback to students, you may wish to focus on how students are attending to the investigation and/or chapter questions, if they are using evidence they have gathered to support their responses to questions, and if they are using appropriate unit vocabulary in their responses.

# Guidance for Synchronous and In-Person Learning

- Ideas are provided for each lesson.
- If you are able to choose particular lessons to conduct together with students, we recommend:
  - Holding **discussions** to engage students in figuring out the unit phenomenon.
    - At the **beginning of each chapter** so students can share their initial ideas or evolving ideas about the unit phenomenon.
    - At the **end of the chapter** so students can talk as they make sense of evidence, and/or synthesize various sources of information, and make an explanation or argument about the phenomenon.
  - If you have access to kit materials, you can conduct **hands-on demonstrations** when hands-on materials are unavailable to students. Solicit student input as you demonstrate.
  - If students do not have access to technology at home, when in-person, you can provide time for them to make observations and discuss ideas related to the simulations and digital tools.



# @Home Unit Pacing

## Example

Chapter	Number of @Home Lessons
Chapter 1: How does Spruce the Sea Turtle do what she needs to do to survive?	5
Chapter 2: How can Spruce the Sea Turtle survive where there are sharks?	5
Chapter 3: How can Spruce the Sea Turtle's offspring survive where there are sharks?	4
Chapter 4: How can aquarium scientists explain animal defenses to visitors?	1
Total: 15 lessons @ approx. 30 minutes each.	

# @Home Unit Pacing

## Condensing Units

- Lessons are approximately 30 minutes, but do not need to be completed in one sitting. Each lesson has suggested breaking points.
- Complete one chapter at a time - each chapter is a complete and coherent step in figuring out the anchor phenomenon and developing an understanding of the DCIs. Each chapter also engages students in the SEPs.

# @Home Unit Pacing

## Expanding Units

- Suggestions specific to each unit are included in the Teacher Overview Document.

For Animal and Plant Defences here are some examples:

- Include additional lessons or activities from the *Animal and Plant Defenses* unit. Specific suggestions are provided with each Chapter Outline.
- Suggest related everyday phenomena for students to explore, for example investigating how a local plant or animal survives and then creating a model to explain how it survives. Various websites offer at-home explorations, phenomena ideas, and videos.
- Include having students reread books for a new purpose. For example, reading *Spikes, Spines and Shells* to learn about living things that defend themselves with venom.
- Include writing sentences on paper as a follow-up to using the language frames or completing the writing planners.
- Include relevant and feasible extensions from the *Animal and Plant Defenses* Opportunities for Unit Extensions document: <https://my.amplify.com/programguide/wp>