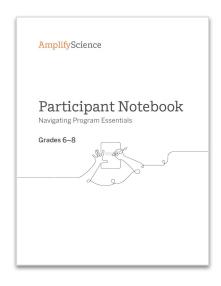
### Welcome to Amplify Science!

# Do Now: Login and open your digital participant packet

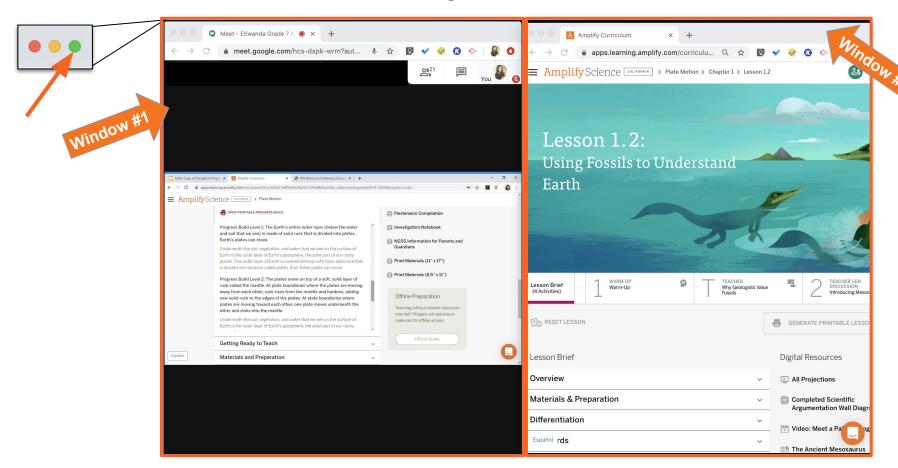




- 1. Go to **learning.amplify.com**
- 2. Select Log in with Amplify
- 3. Enter teacher demo account credentials
  - nycdoe\_middle@tryamplify.net
  - Password: AmplifyNumber1
- 4. Explore as we wait to begin



### Use two windows for today's webinar



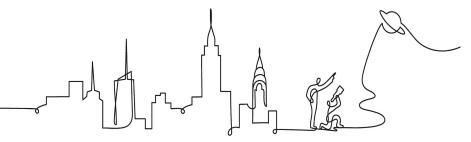
# Amplify Science New York City

### Introduction to Amplify Science NYC Summer Institute, Day 1

Grade 8: Geology on Mars & Force and Motion

New York City Department of Education July 21, 2020

Presented by



### Remote Professional Learning Norms



**Orient yourself t**o the platform

• "Where's the chat box? Where's the mute button?"



Mute your microphone unless sharing with the group



**Use the chat box** for posting questions or responses



Have a note-catcher



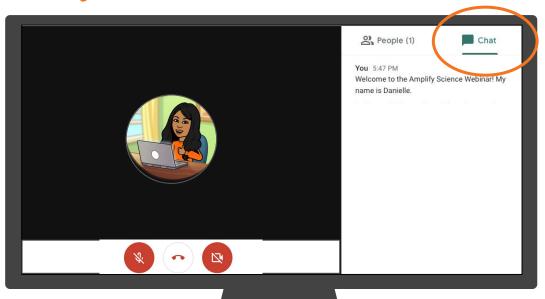
Engage at your comfort level - chat, ask questions, discuss.

#### Introductions!

#### Who do we have in the room today?

• Question 1: What do you love about teaching science?

 Question 2: What do you need to learn today and tomorrow to feel confident with this new curriculum?



### Overarching goals

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

- Navigate the Amplify Science curriculum.
- Understand the program's multimodal approach and instructional materials.
- Apply program essentials to prepare to teach an Amplify Science unit.
- Make an informed decision about which of the Amplify
   Science Hybrid Learning Resources will best support your
   students.

### Day 1 Objectives

#### By the end of today you will be able to:

- Navigate the Amplify Science curriculum.
- Understand the program's phenomenon-based approach and instructional materials.













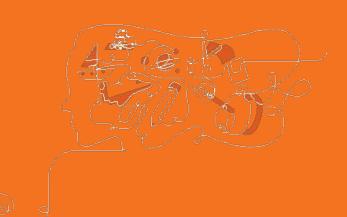




# Plan for the day

- What is Amplify Science?
- Navigation essentials
- Teaching a phenomenon-based lesson
- Unit Guide Resources
- Assessments
- Closing and reflection

# What is Amplify Science?





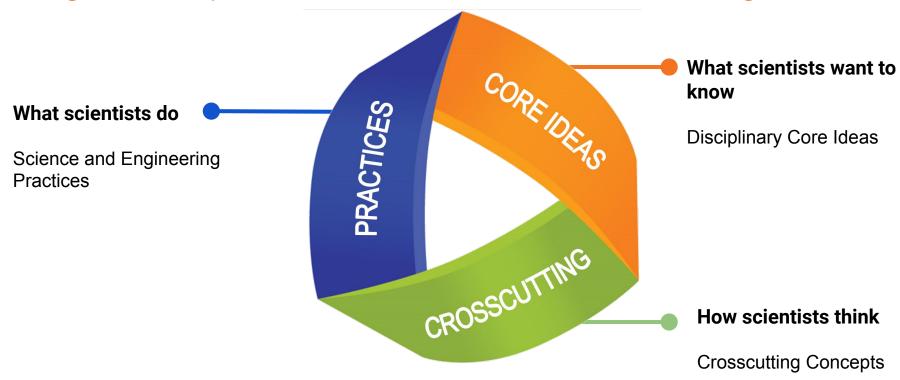


# + Amplify.

# **Amplify** Science

#### Next Generation Science Standards

Designed to help students build a cohesive understanding of science



### **NYC Companions**

AmplifyScience NYC Edition **Amplify**Science + Companion NYSSLS **NGSS** Lessons

### NYC Companion Lesson Slides, Grade 8

https://amplify.com/resources-page-for-nyc-6-8/



Slides for the Companion Lessons that go with the Magnetic Fields Unit will be available on the NYC Resources site before you get to the unit.

### Middle School Units: Launch; Core; Internship











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#### Middle School Curriculum New York City Edition

#### Grade 6

 Launch: Harnessing Human Energy



- Thermal Energy
- Populations and Resources
- Matter and Energy in Ecosystems
- · Weather Patterns
- Ocean, Atmosphere, and Climate
- Earth's Changing Climate

#### Grade 7

 Launch: Microbiome



- Metabolism
- · Phase Change
- · Chemical Reactions
- · Plate Motion
- Engineering Internship: Plate Motion
- Rock Transformations
- Engineering Internship: Earth's Changing Climate

#### Grade 8

Launch: Geology on Mars



- · Earth, Moon, and Sun
- Force and Motion
- Engineering Internship:
   Force and Motion



- Magnetic Fields
- Light Waves
- Traits and Reproduction
- Natural Selection
- Evolutionary History



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#### 8th Grade Overview: Scope and Sequence



#### Unit at a Glance: Force and Motion



#### Force and Motion

16 lessons45 minutes each3 assessment days

**Domain**: Physical Science

Unit type: Core

Student role: Physicists

**Phenomenon:** The asteroid sample-collecting pod failed to dock at the space station as planned.

#### Middle School Unit Resources

#### **NYC Print student editions**





Investigation Notebooks or digital student experience



Teacher's Guide (digital or print)



Articles (digital or print)



Assessments and Reporting



Simulations and other digital tools



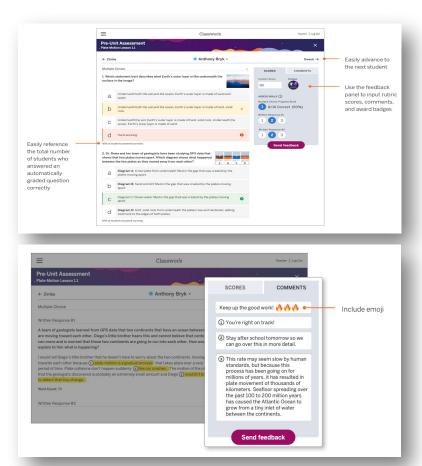
Hands-on and print materials



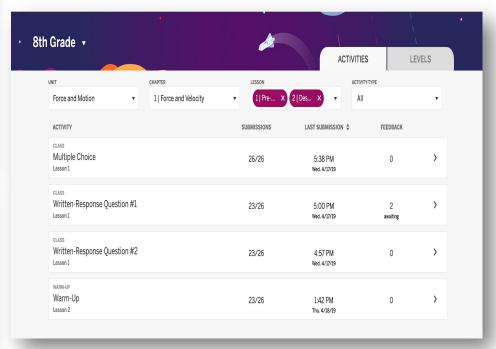
Classroom Slides



**Hands-on Flextensions** 



#### Classwork



### Coming Soon for Back to School!

#### Classroom Slides

Each lesson will have a downloadable and editable PowerPoint file to help guide teachers and their students through the lesson.



### **Classroom Kits**



## Hands On Learning Materials



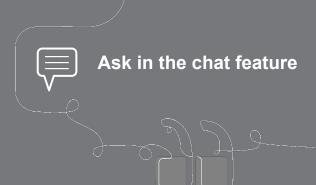






#### Force and Motion Classroom Wall

**Unit Question Key Concepts** Vocabulary How do forces affect motion? 1. A force is required to velocity change the velocity of an object. **Chapter 1 Question** What caused the pod to change direction?



# Questions?













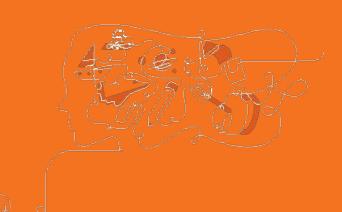


# Plan for the day

- What is Amplify Science?
  - Navigation essentials
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- Closing and Reflection

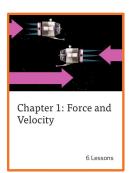


# Navigation Essentials











Velocity

5 Lessons



Chapter 3: Collisions

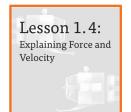


4

Lesson 1.1:
Pre-Unit Assessment

Lesson 1.2:
Describing Changes in Motion

Lesson 1.3:
Investigating
Direction of Force



Lesson 1.5:
Force Strength and
Velocity Change

Lesson 1.6: Evaluating Claims and Thruster Forces

Lesson Brief (4 Activities)

















**Activities** 

#### 3 Steps for Preparing to Teach

#### Step 1:

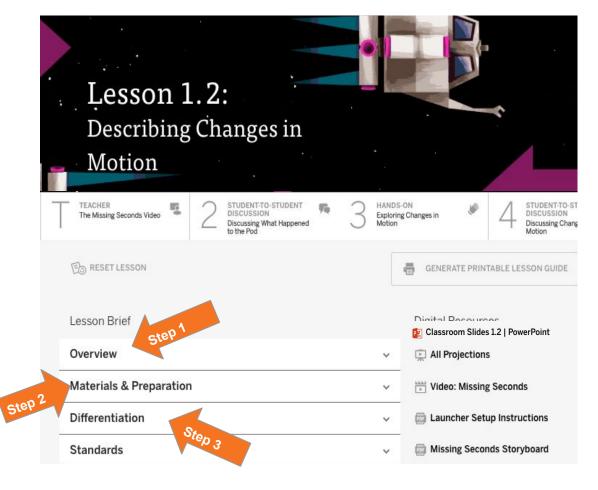
Read the lesson overview

#### Step 2:

Read the Materials and Preparation section

#### Step 3:

Read the Differentiation



### Welcome to Amplify Science!

#### Do Now: Login



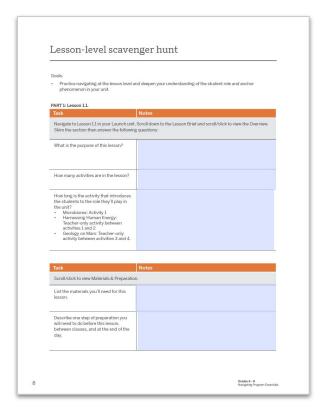


- 1. Go to learning.amplify.com
- 2. Select Log in with Amplify
- 3. Enter teacher demo account credentials
  - o xxxxxxx@pd.tryamplify.net
  - o Password: xxxx
- 4. Explore as we wait to begin

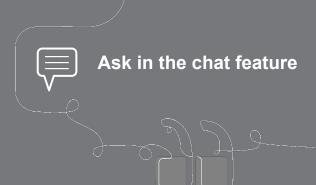
#### Pages 6-7

### Lesson Level Exploration

#### **Scavenger Hunt**







# Questions?

# 5 min break

















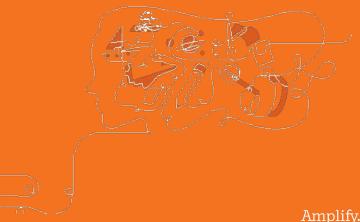


# Plan for the day

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- Closing and Reflection



# What is phenomenon-based instruction?



#### Next Generation Science Standards

#### Phenomenon-based teaching and learning

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

#### **Next Generation Science Standards**

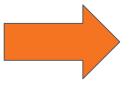
Think-Type-Discuss: How might learning be different?

Topic-based	Phenomenon-based	
What is the water cycle?	What caused the storms in this area to be severe?	
What is an ecosystem?	Why are there suddenly so many moon jellies?	
How does light energy interact with matter?	Why does Australia have an elevated skin cancer rate?	

#### Comparing topics and phenomena

A shift in science instruction

from learning about (like a student)



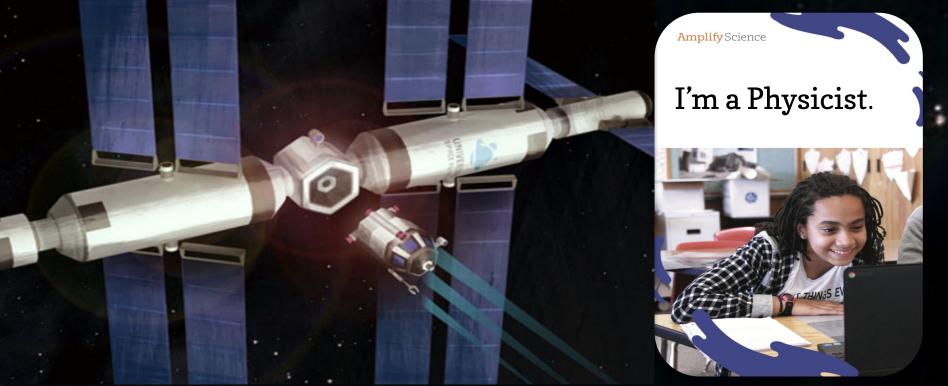
to figuring out

(like a scientist)

## Teaching a phenomenon-based lesson

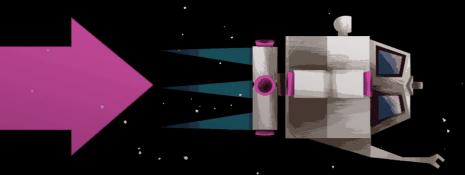






Anchor Phenomenon: Rather than stopping and docking at the space station, the asteroid sample-collecting pod moved in the opposite direction.

**Student Role: Student Physicists** 

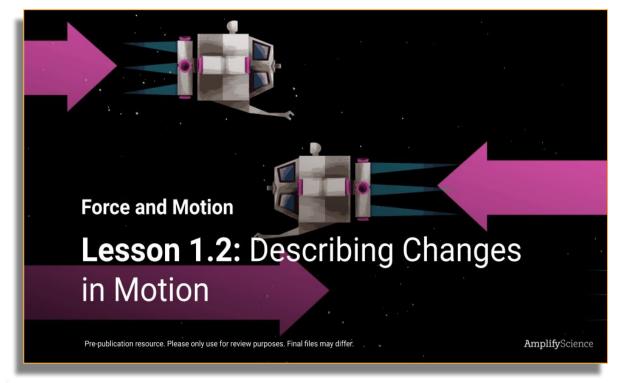


**Force and Motion** 

## Lesson 1.2: Describing Changes in Motion



#### Classroom Slides

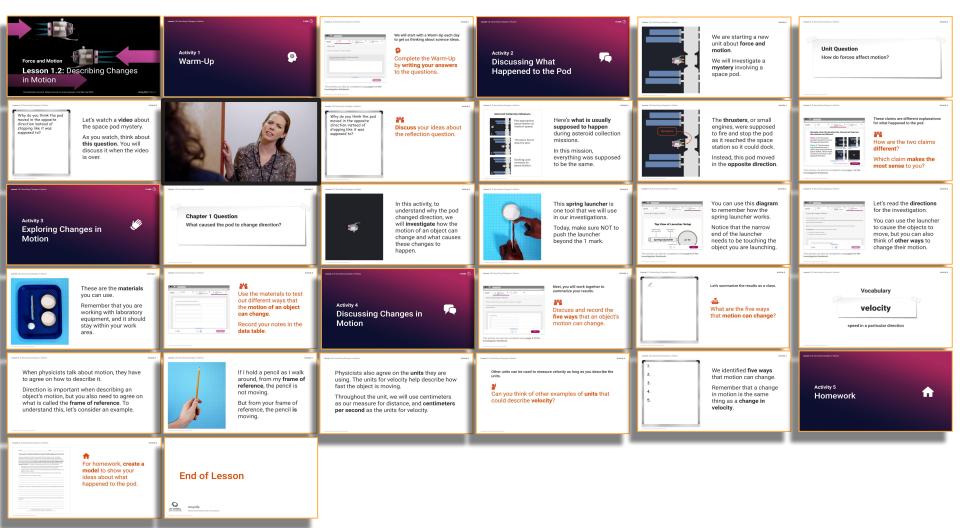


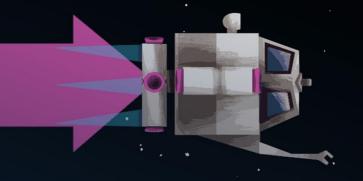
#### Teacher action:

Read the two claims out loud and give pairs a few minutes to discuss the claims. Point out that students may want to compare the claims storyboard with the storyboard showing the expected outcome. If time allows, invite a few students to share their ideas about the claims with the class.

#### 🙋 Students may respond:

- In Claim 1, the thrusters cause the pod to move in the opposite direction; in Claim 2, the thrusters slow the pod down, but it's not enough, so it collides with the space station.
- · (Accept all responses.)





**Force and Motion** 

**Lesson 1.3:** Investigating Direction of Force



## Activity 1 Warm-Up





#### Warm-Up

Signifying Changes in Motion

- 1. Look carefully at the pair of images and think about what the arrows mean.
  - Which image (A or B) shows the direction someone would need to kick the ball in order to move it toward the goal?



## Exploring the Force and Motion Sim



Force and Motion: Lesson 1.3

Homework: Creating a Mod	del to Explain What Happened to the Pod
happened to cause the pod to move a know what caused this change in dire as the pod was about to dock. Create the missing seconds that caused th	pace pod that was trying to dock, but something away from the space station instead. Scientists don't section, because a few seconds of the video went out just e a model to explain what you think happened during he pod to move away from the space station, in the model you may want to do one of the following:
	o show what you think happened. If you do this, bring prepared to explain what you think happened.
Create a diagram-model to show diagram to other students.	w what you think happened. Be prepared to explain your
Find another way to model your	thinking. Be prepared to share your model in class.
2. What are two ways your model acc	curately shows your ideas on what happened to the pod?
2. What are two ways your model acc	curately shows your ideas on what happened to the pod?
	curately shows your ideas on what happened to the pod?
3. What are two ways your model do	
3. What are two ways your model do	

Let's discuss the models you created after the last lesson.



Use your model to **explain** your thinking about what happened to the pod.

#### Today, we will investigate this question:

# Investigation Question: What makes an object's motion change?

Force and Motion: Lesson 1.3



You will gather evidence about how the motion of objects can change using the *Force and Motion*Simulation.

You'll start by selecting Open Explore mode.





#### Exploring the Force and Motion Sim

Exploring the Simulation

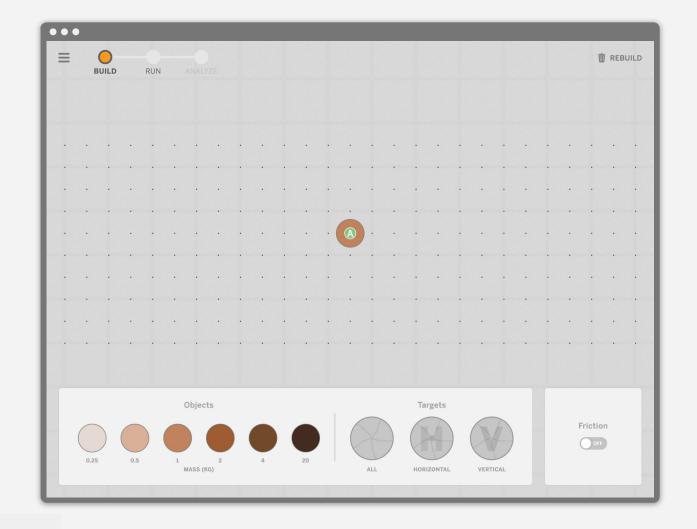
Explore the Force and Motion Simulation: Open Explore mode. As you explore, share your discoveries with your partner.

Force and Motion: Lesson 1.3

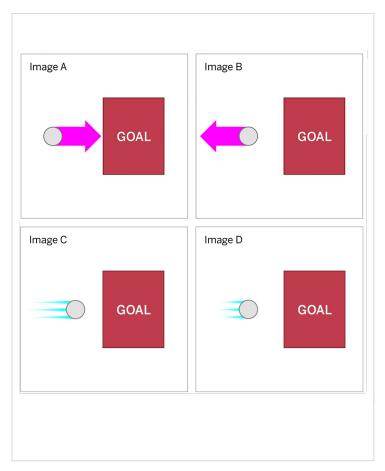




### What did you observe about the **Sim's features?**



Force and Motion: Lesson 1.3



Notice that the arrows and velocity tails in the Sim are similar to the ones we saw in our Warm-Up today.

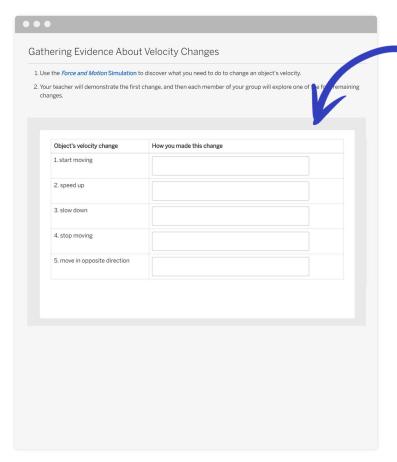


# Activity 3 Gathering Evidence About Velocity Changes

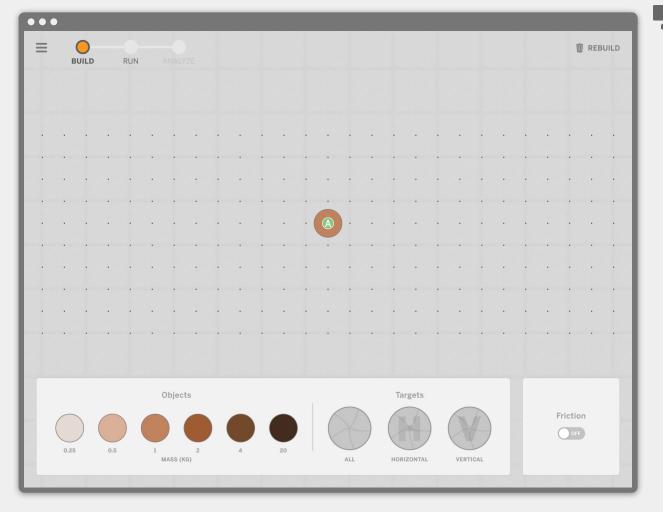


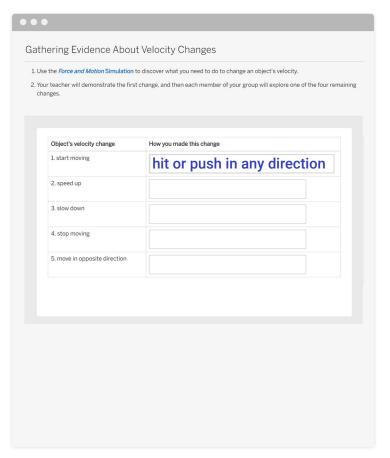


Next, we'll use the Sim to explore the ways an object's velocity can change. I'll demonstrate one way by making an object start moving, and then you'll explore the other ways in groups.



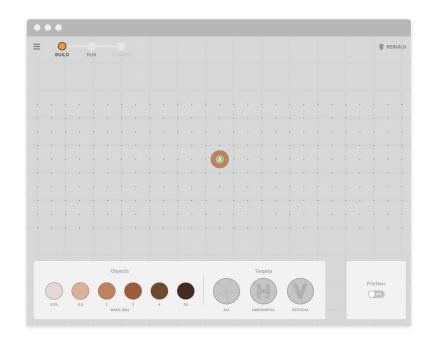
As you gather evidence about what you need to do to change an object's velocity, you'll record your answers in this table.





To make an object **start moving**, we can push it or make another object run into it. This can happen in any direction.

In Row 1, I'd write, "hit or push in any direction."



You will work in groups of four, and each person will explore one of the remaining ways an object's velocity can change. You'll share what you discover with your

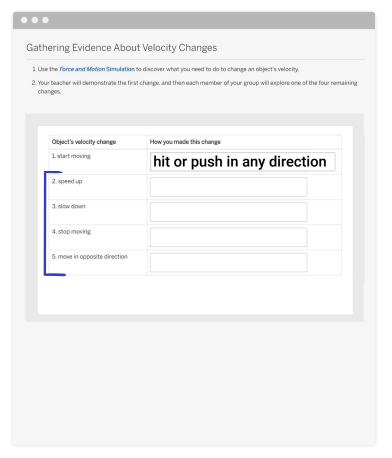


#### • • •

#### Gathering Evidence About Velocity Changes

- 1. Use the Force and Motion Simulation to discover what you need to do to change an object's velocity.
- 2. Your teacher will demonstrate the first change, and then each member of your group will explore one of the four remaining changes.

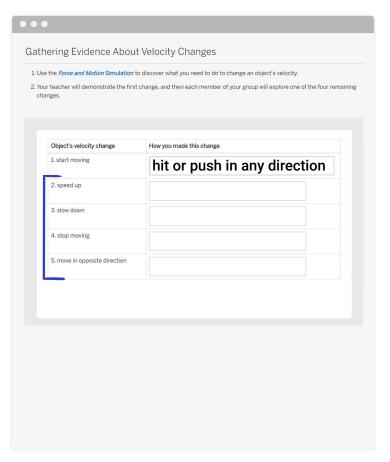
Object's velocity change	How you made this change
1. start moving	
2. speed up	
3 slow down	



Each group member will now share and demonstrate their velocity change.

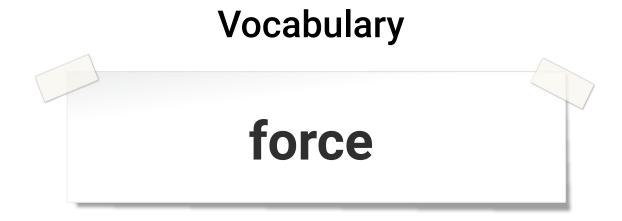


Share what you did to make your velocity change happen, as the rest of the group listens and records.





Let's discuss how we used the Sim to change an object's velocity and think about the words that can describe what we did.

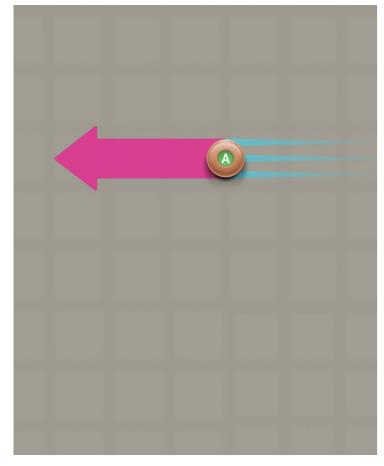


a push or a pull that can change the motion of an object

#### Vocabulary

#### exert

to apply a force

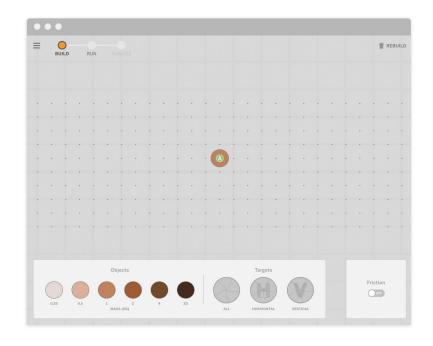


To cause each of the velocity changes, you had to **exert a force**.

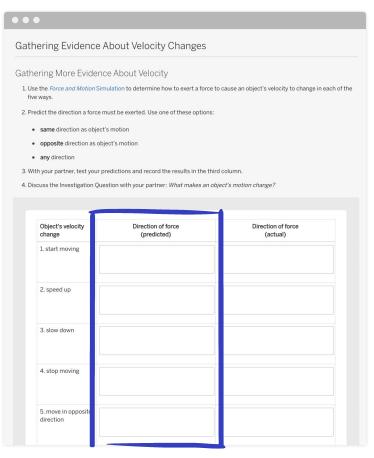
This leads to our first **key** concept.

#### **Key Concept**

1. A force is required to change the velocity of an object.

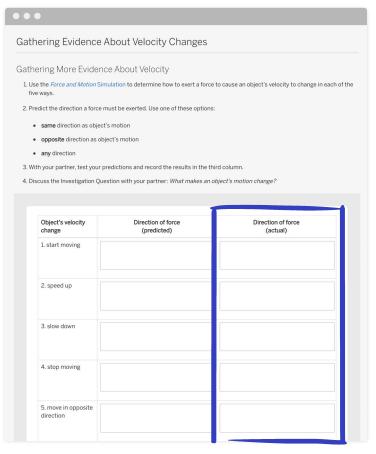


In the next Sim activity, you will determine in which direction a force must be exerted to cause each of the ways an object's velocity can change.





Before you investigate, record your predictions about what you think will happen. Then, share your predictions with your partners.



Now it's time to test your predictions.



Complete your tests and record the results. Then, discuss your answers to the Investigation Question.

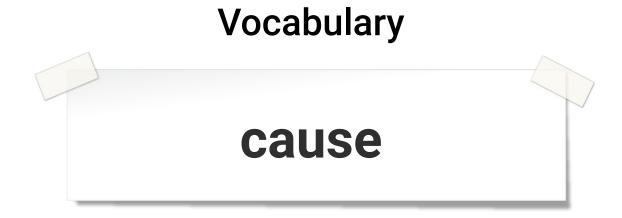
Now that we've explored five different ways that velocity can change, let's share our ideas about the question we've been investigating.



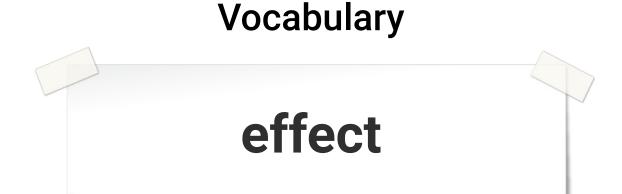
What makes an object's motion change?

# **Key Concept**

2. How an object changes velocity depends on the direction of the force exerted on that object.



an event or process that leads to a result or change



a result or change that happens because of an event or process

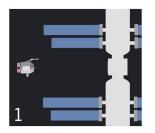


# Activity 4 How the Pod Changed Its Velocity



Force and Motion: Lesson 1.3

#### **Asteroid Collection Missions**

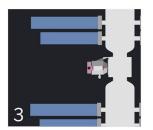


Pod approaches space station at medium speed.



2

Thrusters fire to stop the pod.



Docking: pod connects to space station.

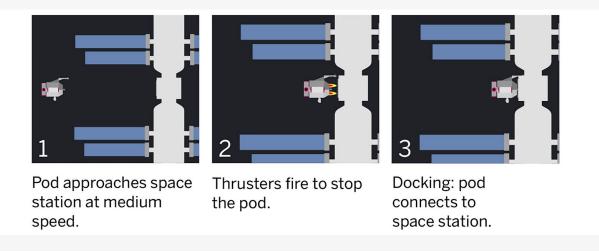
Remember, this is what was supposed to happen during the pod mission.



Think about in which direction the thrusters need to fire in order to exert a force that would cause the pod to stop.

#### • • •

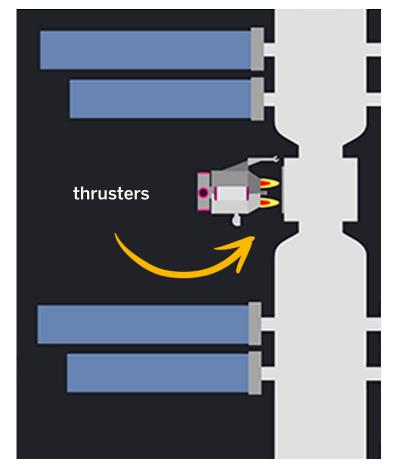
### How the Pod Changed Its Velocity



The thrusters fire to exert a force in the as the motion of the pod, and that causes it to stop.



Force and Motion: Lesson 1.3

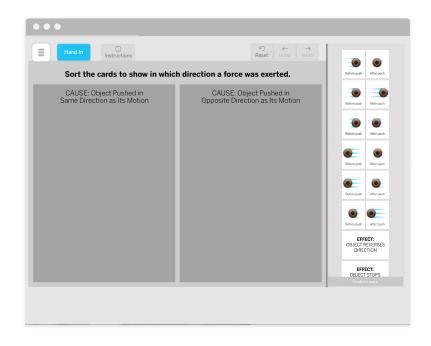


In the pod mission, the thrusters fired in the opposite direction of the pod's motion, but the change in velocity was not what the USA team expected. We'll continue to investigate why.

# Activity 5 Homework



Force and Motion: Lesson 1.3 Activity 5



In this activity, you will use a Sorting Tool to review cause-and-effect relationships between forces and velocity changes.



#### Homework

#### Identifying Cause and Effect

- 1. Open the Force and Motion Sorting Tool activity: Cause and Effect.
- 2. When your model is complete, press HAND IN.

**Goal:** Identify the direction of the force that will cause each change in velocity.

#### Do:

Drag each card to the appropriate column.

# **End of Lesson**



Amplify.

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# Go 'Live' to Model Preparing to Teach

# Force and Motion Classroom Wall

**Unit Question Key Concepts** Vocabulary How do forces affect motion? 1. A force is required to velocity change the velocity of an object. **Chapter 1 Question** What caused the pod to change direction?

Transition to model lesson 'LIVE' on the PLATFORM

# End model lesson

# Force and Motion Classroom Wall

Unit Question
How do forces affect
motion?

Chapter 1 Question
What caused the pod to change direction?

**Key Concepts** 

1. A force is required to change the velocity of an object.

**Vocabulary** 

velocity

# I notice, I wonder...



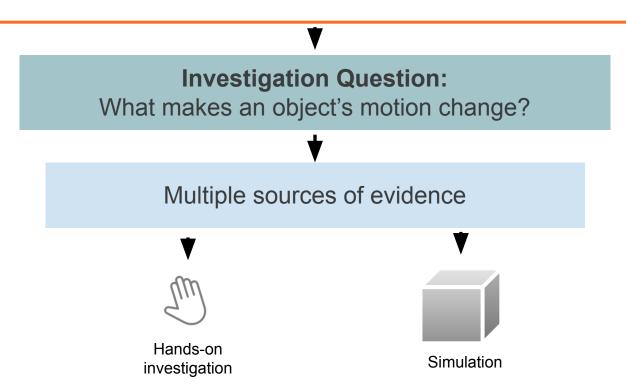


Answer in the chat feature

What did you **notice** about the model lesson?

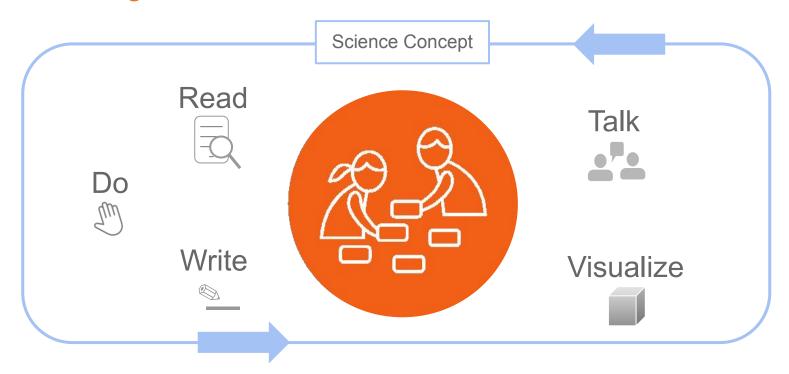
What do you now wonder?

### Chapter 1: What caused the pod to change direction?

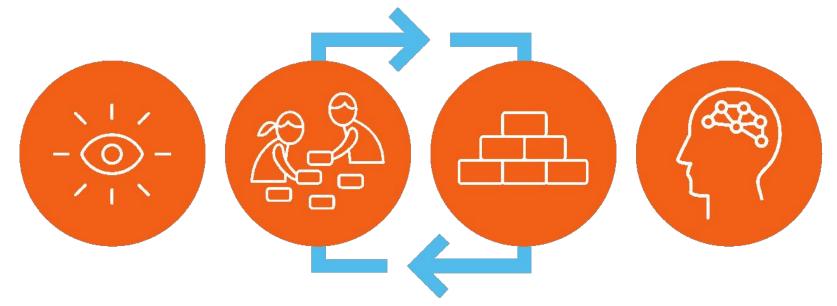


# Multimodal learning

### Gathering evidence from different sources



# Amplify Science approach

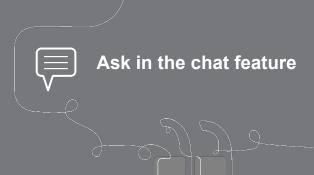


Introduce a real world problem

Collect evidence from multiple sources

Build increasingly complex explanations

Apply knowledge to solve a different problem



# Questions?













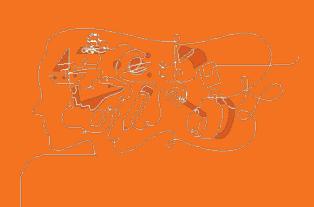


# Plan for the day

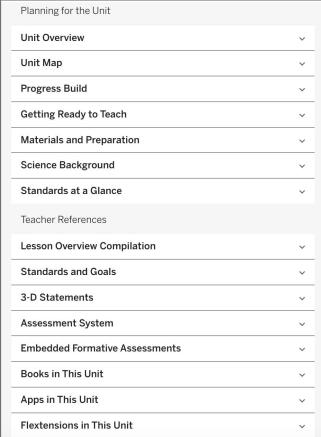
- What is Amplify Science?
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- Closing and reflection

Amplify.

# Unit Guide Resources



# Unit Guide Resources



#### Printable Resources

- Coherence Flowcharts
- Copymaster Compilation
- Flextension Compilation
- Investigation Notebook
- Multi-Language Glossary
- NGSS Information for Parents and Guardians
- Print Materials (8.5" x 11")
- Print Materials (11" x 17")

#### Offline Preparation

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

Offline Guide

#### Unit Guide resources

Once a unit is selected, select JUMP DOWN TO UNIT GUIDE in order to access all unit-level resources in an Amplify Science unit.

Unit Overview	Describes what's in each unit, the rationale, and how students learn across chapters
Unit Map	Provides an overview of what students figure out in each chapter, and how they figure it out
Progress Build	Explains the learning progression of ideas students figure out in the unit
Getting Ready To Teach	Provides tips for effectively preparing to teach and teaching the unit in your classroom
Materials and Preparation	Lists materials included in the unit's kit, items to be provided by the teacher, and briefly outlines preparation requirements for each lesson
Science Background	Adult-level primer on the science content students figure out in the unit
Standards at a Glance	Lists NGSS Standards (Performance Expectations, Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts), Common Core State Standards for Englis Language Arts, and Common Core State Standards for Mathematics

Standards at a Glance	Lists NGSS Standards (Performance Expectations, Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts), Common Core State Standards for Engli Language Arts, and Common Core State Standards for Mathematics
Teacher references	
Lesson Overview Compilation	Lesson Overview of each lesson in the unit, including lesson summary, activity purposes, and timing
Standards and Goals	Lists NGSS (Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts) and CCSS (English Language Arts and Mathematics) standards in the unit, explains how the standards are reached
3-D Statements	Describes 3-D learning across the unit, chapters, and in individual lessons
Assessment System	Describes components of the Amplify Science assessment system, identifies each 3-D assessment opportunity in the unit
Embedded Formative Assessments	Includes full text of formative assessments in the unit
Articles in This Unit	Summarizes each unit text and explains how the text supports instruction
Apps in This Unit	Outlines functionality of digital tools and how students use them (in grades 6-8)
Flextensions in This Unit	Summarizes information about the Hands-On Flextension lesson(s) in the unit
Printable resources	
Coherence Flowcharts	Visual representation of the storyline of the unit
Copymaster Compilation	Compilation of all copymasters for the teacher to print and copy throughout the unit
Flextension Compilation	Compilation of all copymasters for Hands-on Flextension lessons throughout the unit
Investigation Notebook	Digital version of the Investigation Notebook, for copying and projecting
Multi-Language Glossary	Unit vocabulary words in 10 languages
NGSS Information for Parents and Guardians	Information for parents about the NGSS and the shifts for teaching and learning
Print Materials (8.5" x 11")	Digital compilation of printed cards (i.e. vocabulary cards, student card sets) provided in the k
Print Materials (11" x 17")	Digital compilation of printed Chapter Questions and Key Concepts provided in the kit

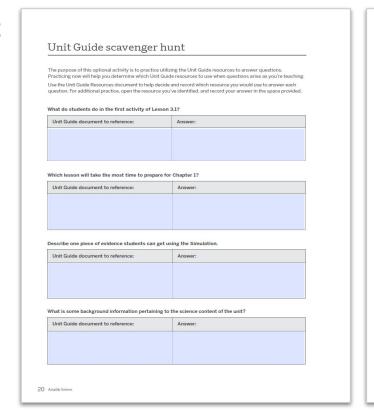
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#### Pages 18-19

# **Unit Guide Exploration**

### Scavenger Hunt



Unit Guide document to reference:	Answer:	
Describe one material you will print and make	copies of during this unit.	
Unit Guide document to reference:	Answer:	
What is one article that students read in this	unit?	
What is one article that students read in this Unit Guide document to reference:	unit? Answer:	
	Answer:	
Unit Guide document to reference:	Answer:	
Unit Guide document to reference:  Which lessons in Chapter 2 include On-the-Fit	Answer:	
Unit Guide document to reference:  Which lessons in Chapter 2 include On-the-Fit	Answer:	

# 5 min break















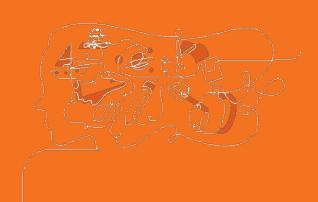


# Plan for the day

- What is Amplify Science?
- Navigation essentials
- Teaching a Lesson
- Unit Guide Resources
- Assessments
- Closing and Reflection

# Progress Build

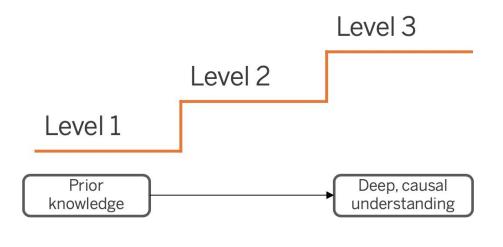
A unit-specific learning progression



# Progress Build

# Teaching tip

Being familiar with your unit's Progress Build means you know what's coming. This will help you avoid giving ideas away too early in the unit!



### Force and Motion

### How do these ideas relate to one another?

 A force causes a change in an object's velocity.

 An object's mass determines its velocity change for a given force.



# Earth, Moon and Sun

# Building upon a foundation

### Chapter 2

### Chapter 1

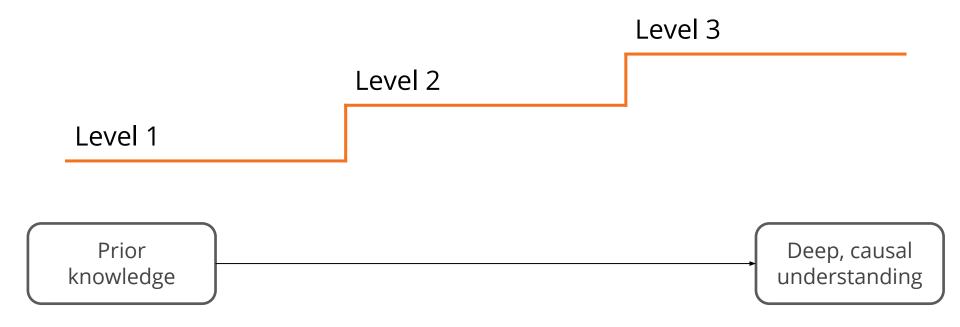
A force causes a change in an object's velocity.

An object's mass determines its velocity change for a given force.



# Progress Build

A unit-specific learning progression



# Earth, Moon, and Sun Progress Build

Level 1

A force causes a change in an object's velocity.

Level 2

An object's mass determines its velocity change for a given force Level 3

When two objects collide, both experience the same strength force, but in opposite directions

Prior knowledge

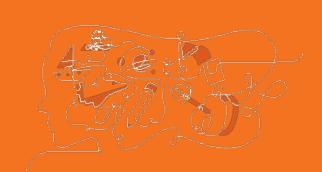
Deep, causal understanding

# 5 min break



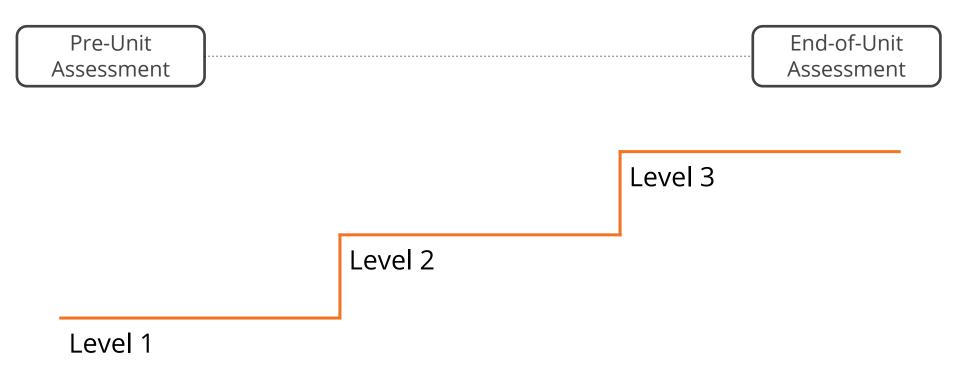
## Assessment System

Think to yourself: How do your students show you what they know?

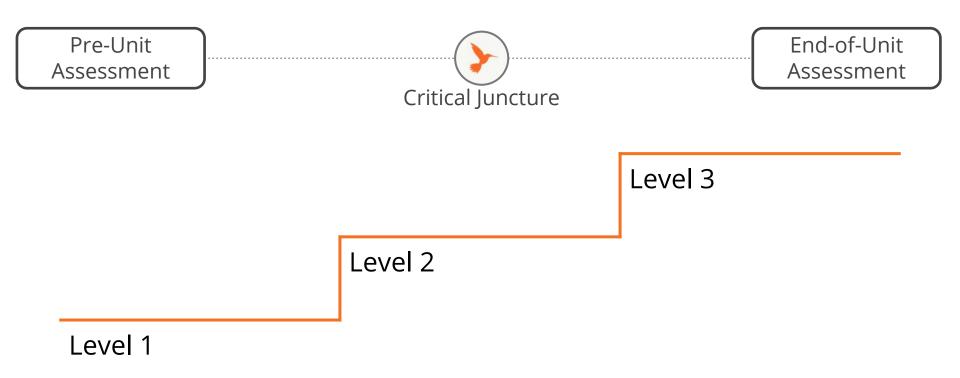




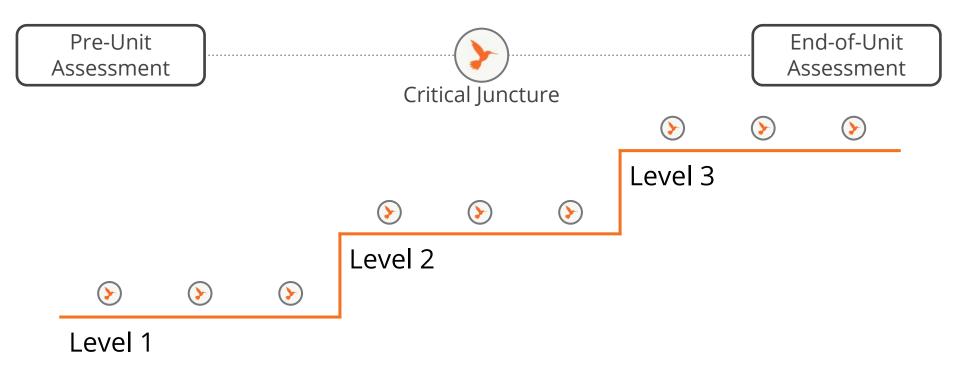
#### Pre- and End-of-Unit Assessments



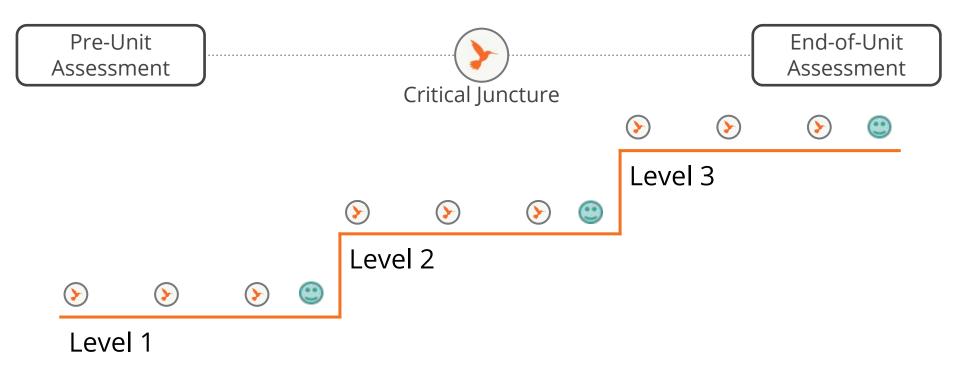
## Critical Juncture Assessments



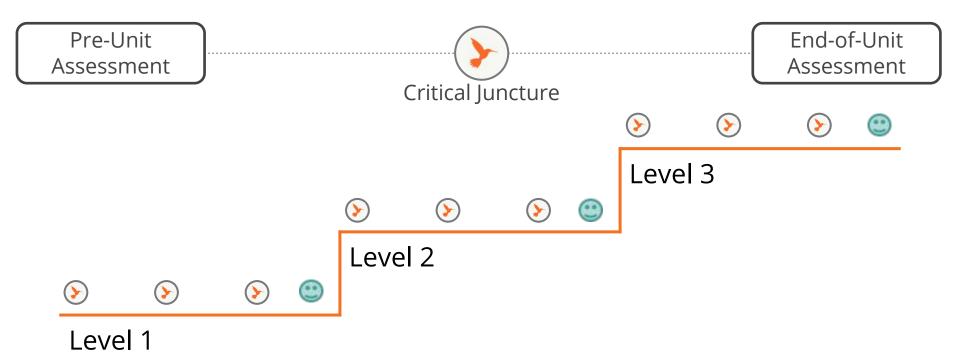
## On-the- Fly Assessments



#### Student Self-Assessments

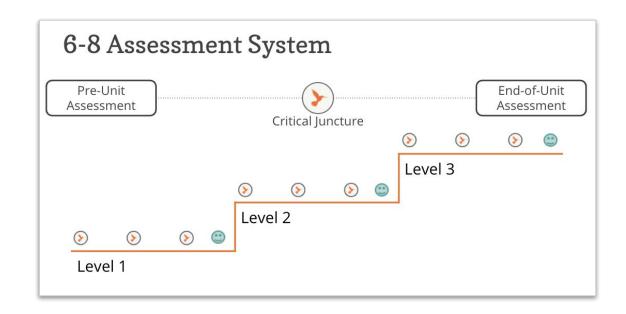


## 6-8 Assessment System



## Capture your thinking!

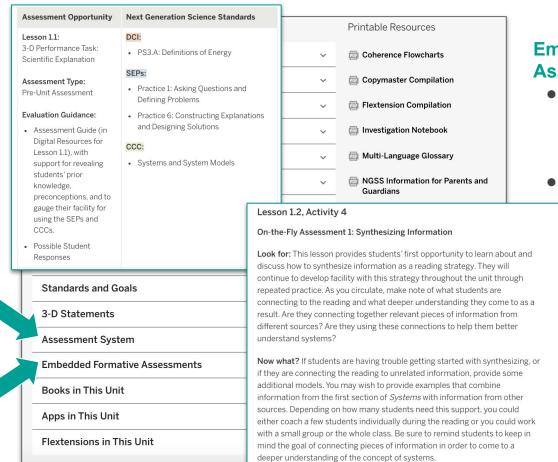
How will you use these embedded assessment opportunities?



#### Unit Level Assessment Documents

#### **Assessment System:**

- explains the organization of the assessment system
- lists out each assessment in the unit with key information
- goes into an explanation of each type of assessment found in the unit



## **Embedded Formative Assessments:**

- explains what to look for at each assessment opportunity
   gives guidance
  - for instructional next steps

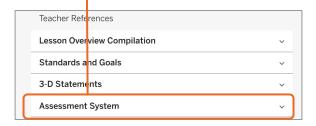
Amplify.

# Go 'live' to show assessment resources and assessments

#### Review an assessment

## Part 1: Choose an Assessment Opportunity

**1.**Navigate to the Assessment System reference in the Unit Guideo

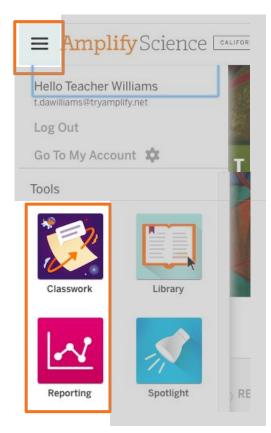


- **2.**Choose an 'Assessment opportunity' to preview. *i.e:* Pre-Unit, On-the-Fly, Critical Juncture, or End-of-Unit
- **3.**Navigate to the lesson and review the assessment

#### Part 2: Review the Assessment

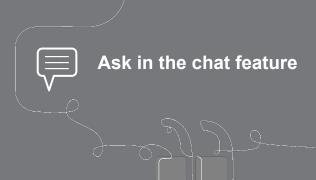
- **4.** As you review the assessment, answer these questions:
  - **a.** What are students doing?
  - **b.** What would student performance tell me about student understanding?
  - **c.** How could I adjust instruction based on student performance?
  - **d.** How could I record student data?

## Classwork and Reporting





Go 'live' to show classwork and reporting tool



## Questions?

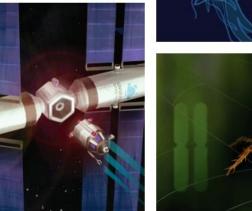














# Plan for the day

- What is Amplify Science?
- Navigation essentials
- Teaching a phenomenon-based lesson
- Unit Guide Resources
- Assessments
- Closing and reflection

Amplify.

### 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

Navigation Temperature Check Rate yourself on your comfort level with navigating the digital curriculum.

1 = Extremely Uncomfortable

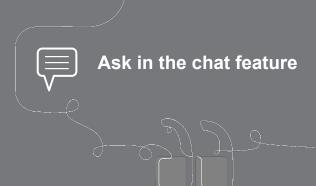
2 = Uncomfortable

3 = Mild

4 = Comfortable

5 = Extremely Comfortable





# Questions?

## Revisiting Day 1 Objectives

#### Are you able to...

- Navigate the Amplify Science curriculum?
- Understand the program's phenomenon-based approach and instructional materials?

### Day 2 Objectives

#### By the end of day 2 you will be able to:

- Understand the purpose of Launch Units.
- Apply program essentials to prepare to teach an Amplify Science Launch Unit.
- Make an informed decision about which of the Amplify Science Hybrid Learning Resources will best support your students.

## Overarching goals

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

- Navigate the Amplify Science curriculum.
- Understand the program's multimodal approach and instructional materials.
- Apply program essentials to prepare to teach an Amplify Science unit.
- Make an informed decision about which of the Amplify
   Science Hybrid Learning Resources will best support your
   students.

## Closing reflection



Based on our work today, share:

Brain: something you'll keep in mind

Heart: something you're feeling

Feet: something you're planning to do

#### Additional Amplify resources





#### Program Guide

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

my.amplify.com/programguide

#### **Amplify Help**

Find advice and answers from the Amplify team.

my.amplify.com/help

### Additional Amplify support

#### **Customer Care**

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



- **800-823-1969**
- Amplify Chat

## 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.

# Thank you for your participation in day 1. See you tomorrow for day 2!

