

EXPLORE SCIENCE

Program Preview

oive in!

TEACHERS LOVE STUDIES WEEKLY

"I loved how hands-on it is and allows for teacher flexibility. My students enjoy having the tangible paper but also enjoy how interactive it is online. It's easy to cut apart the weekly issue and do more project-based activities with it. Which is why I recommended it to my current school, and the committee voted to adopt this program."

Early Childhood & Lower School Counselor

"Studies Weekly's science curriculum is everything I always looked for as a teacher. It's engaging for the students, easy to implement, and three-dimensional."

Curriculum Writer



"This is my 24th year teaching, and this is the best science program I've ever used before. You can do so many hands-on things with it. The terminology is awesome for kids. It's easy for teachers."

1st Grade Teacher

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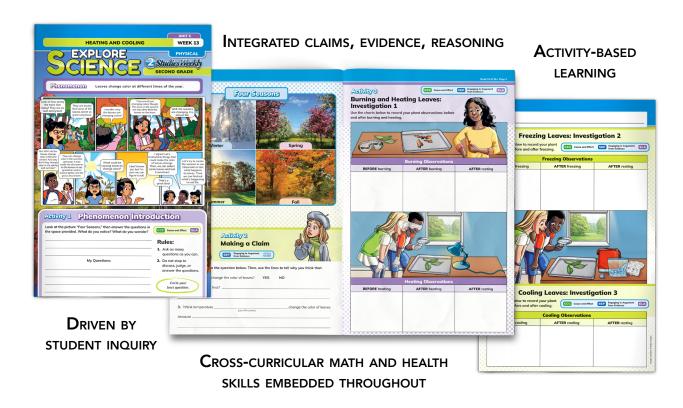
COMPREHENSIVE CORE CURRICULUM



	COMPREHENSIVE	SUPPLEMENTAL
The backbone of classroom instruction	\bigcirc	
Heavily based on educational research	\bigcirc	
Addresses most or all state standards and frameworks		
Used for Tier 1 instruction	\bigcirc	
INCLUDES FORMATIVE AND SUMMATIVE ASSESSMENTS	⊘	
Complements student materials with rich teacher materials		
May include extra topics and depth	\bigcirc	\bigcirc
Can be used for Tier 2 or 3 instruction	\bigcirc	\bigcirc
May include remediation, enrichment, and extension activities		\bigcirc
Teachers can differentiate class materials to meet diverse student needs		\bigcirc
Studies Weekly!	Ø	Ø

NEW K-5 SCIENCE

Fully aligned to the **NEXT GENERATION SCIENCE STANDARDS (NGSS),** Studies Weekly's Explore Science curriculum builds scientific literacy and competency through three dimensions: Scientific and Engineering Practices, Crosscutting Concepts, and Disciplinary Core Ideas.





SEE MORE OF YOUR HANDS-ON SCIENCE



WHAT COMES WITH STUDIES WEEKLY





Teacher Edition

Spend less time planning and more time teaching.

- Ready-made lessons
- Essential questions
- Activities & assessments
- Standards correlations
- Material lists





Online Platform

Engage all students and expand their learning!

- Exclusive video library
- Audio reader
- Rewards system
- Customizable content
- Teacher resources



Printables

Each unit includes multiple lesson supports, graphic organizers, activity sheets, flash cards, and word wall cards to **REINFORCE** and **EXTEND** student learning.



Student Artifacts

CUT IT. CONSUME IT.

Students can make the print publications their own by highlighting and annotating on it. Use Student Editions to create student artifacts and assess knowledge.

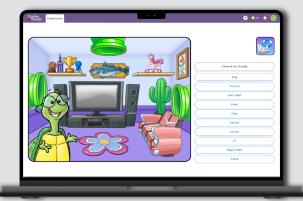
STUDIES WEEKLY ONLINE

Our user-friendly digital learning program is used by over **1.7 MILLION TEACHERS** and **STUDENTS**. It is similar to popular LMS platforms and appeals to all learning styles with easy-to-use lesson plans, videos, and activities.



GAMIFICATION AND TOOLS

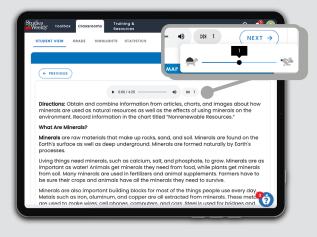
Your science program includes many additional resources within the digital platform to enhance and expand your teaching.



GAMIFICATION encourages student engagement

ARTICLE TOOLS include:

- Variable speed audio reader
- Highlighting & annotating tools

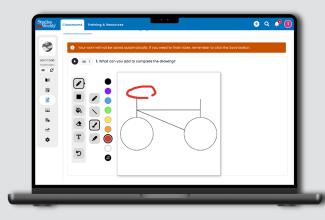




PHENOMENON COMICS introduce concepts through engaging stories

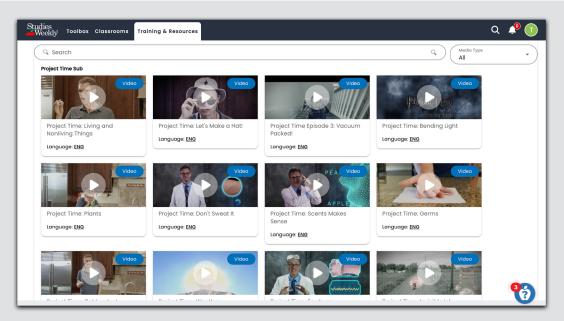
INTERACTIVE QUESTIONS

that allow students to draw, sort, group, label, and more

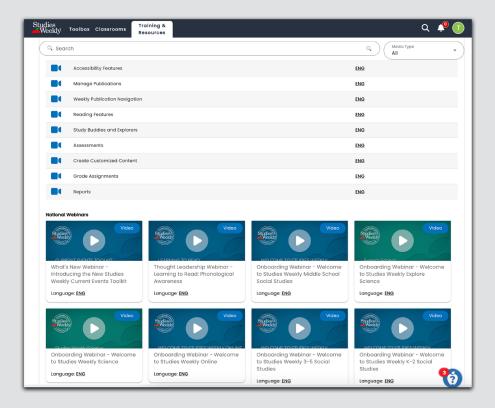


TEACHER RESOURCES

Empower teachers with comprehensive teacher resources to lessen preparation time, deepen learning, and enhance the teacher experience.



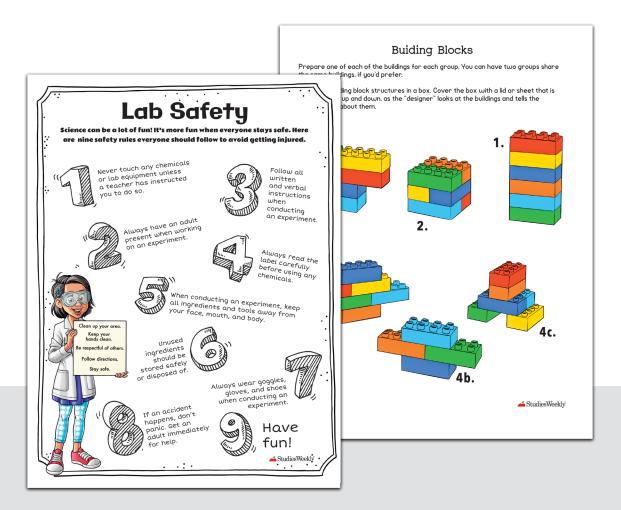
Engaging SCIENCE VIDEOS



TRAINING and ON-DEMAND PD

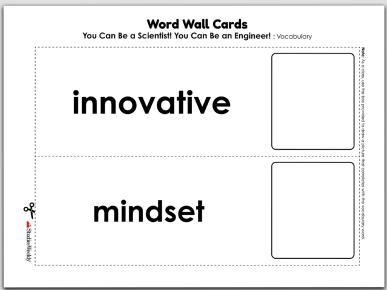
PRINTABLES

Printables help students connect with the material, extend learning, and reinforce key concepts.



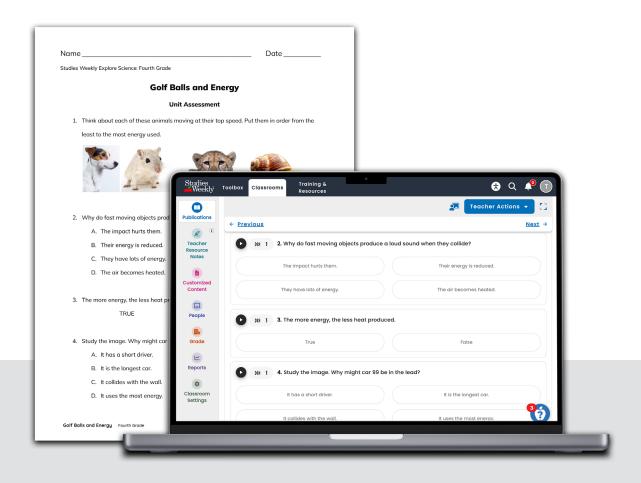
Word wall

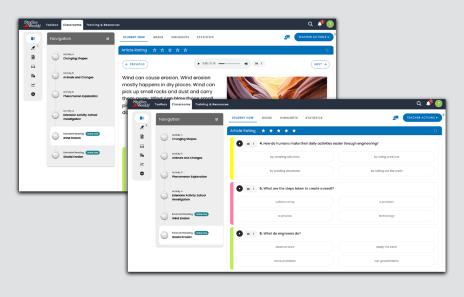
VOCABULARY cards



ASSESSMENTS

Monitor student progress with formative and summative assessments that are easy to edit, assign, and grade in print or online.

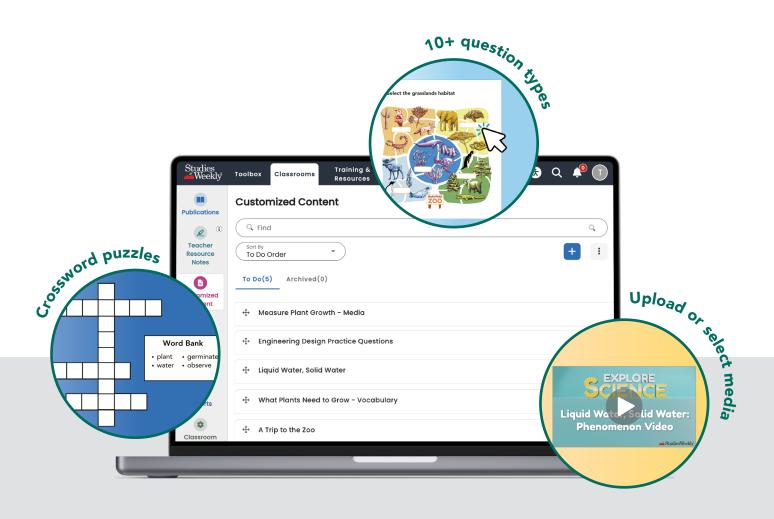




Check knowledge with comprehension questions after each article and lesson activity

CUSTOMIZABLE CONTENT

Create a **DYNAMIC ONLINE LEARNING EXPERIENCE** that works for you and your students. Customize assignments, assessments, media, and more in your publications. Or, create and upload your own content to fit your students' needs.

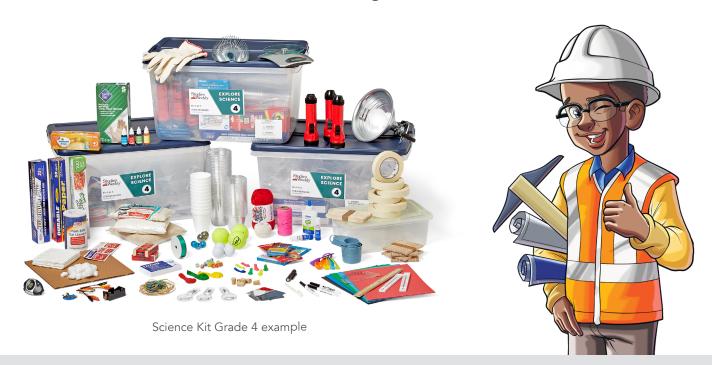


Assign content to the whole class or individual students for increased **DIFFERENTIATION**





Optional science kits available to enhance **EXPERIENTIAL LEARNING** through hands-on instruction.



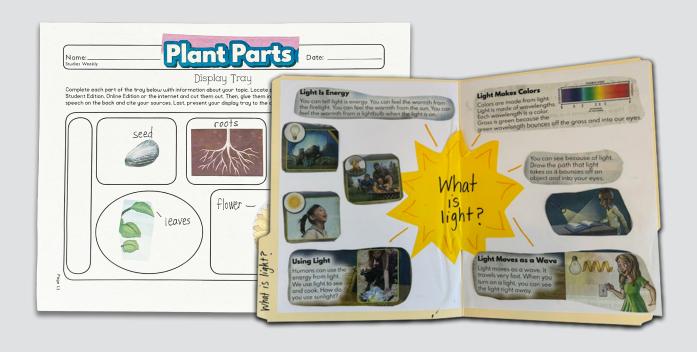
YOUR SCIENCE KIT INCLUDES:

- Essential materials needed in the hands-on curriculum activities
- Important science tools such as thermometers, scales, beakers, and more
- Consumable materials not typically found in the classroom
- Enough items to support a typical classroom of students working in groups
- Unit-specific packaging within the storage bins

You can replace kit items yearly by ordering refill kits

STUDENT ARTIFACTS

Because Studies Weekly is a consumable program, students can cut out images and information from the print publication to create learning artifacts.











UNIQUE BENEFITS OF PRINT

While it may take a little time initially to separate the publications, having the ability to file each week separately can actually save time in the long run. Whereas workbook-style curricula offer the risk that students will lose their curriculum, the newspaper format also allows you to give students just one week or unit at a time.

"The most appealing feature is that students have the newspaper format, which they prefer over a textbook. They can interact with it online or on paper. The online features allow students to highlight, underline, and circle which reinforces the information taught in class."

Curriculum Supervisor

"The students absolutely love the newspapers. It takes complicated material and puts it in a way that they can understand and enjoy. They then like to take them home and share them with their family!"

1st Grade Teacher

SORTING STUDENT EDITIONS

Because the Studies Weekly Student Editions are printed in complete student sets, they come nested together into a student edition with all the weeks together. As you separate publications, you can sort them by themes or units and hand them out individually during instruction, giving you more control over how much curriculum your students receive at one time.

IDEAS FOR SORTING

- 1
- 1. Put your students in a circle
- 2. Assign them each a week to find in the SE
- 3. One student starts by pulling out Week 1, then passes the rest to the student in charge of Week 2, etc.
- 4. Gather papers by weeks, clip together



Give older students a service opportunity and ask them to sort



3 Ask a parent helper to sort



EDUCATOR SUPPORT

At Studies Weekly, we believe every educator deserves equitable access to effective, ongoing training and support. Our programs offer student and teacher-friendly resources, Professional Development opportunities, and a partnership with dedicated teams ready to assist you every step of the way.

Our Professional Development and Customer Support teams partner with you to help you reach your professional, classroom, and implementation goals.

Support options include:

- Step-by-step Onboarding Guide available to all educators
- Training resources and videos available in Studies Weekly Online
- Professional Development that can be built around your school or district needs
- One-on-one help from a Teacher Advocate
- Free weekly Teacher Talk Q&A sessions
- A comprehensive Help Center filled with useful articles, videos, and step-by-step guides
- A friendly Customer Support team that can troubleshoot issues with orders, shipping, technical difficulties, rostering, etc.



CUSTOMIZED PD

All sessions can be tailored to fit your needs by:

- Content area
- Instructional focus
- Mode of delivery

- Grade level
- Learning outcomes
- Audience



Onboarding

Receive introductory training in your print publications and online platform



Instructional Modeling

Demonstrate effective teaching strategies in real classroom settings



Train the Trainer

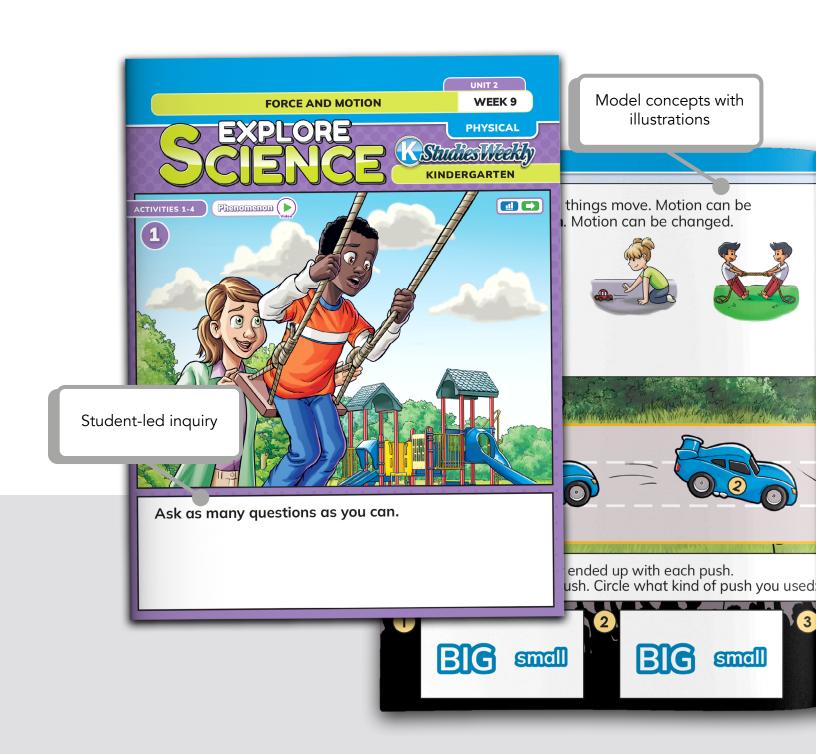
Coach leaders in Studies Weekly professional development



Curriculum Coaching

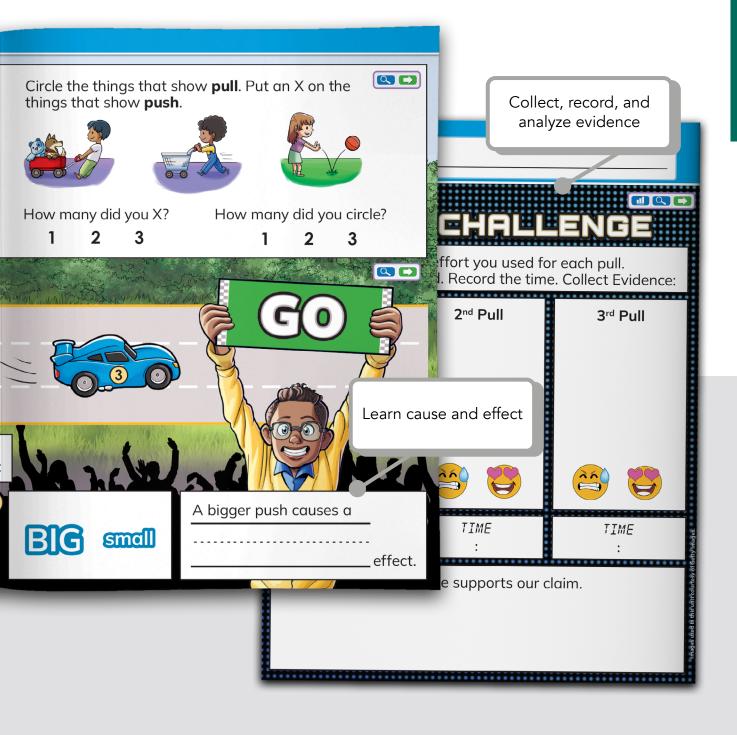
Support for aligning Studies Weekly publications with local curriculum

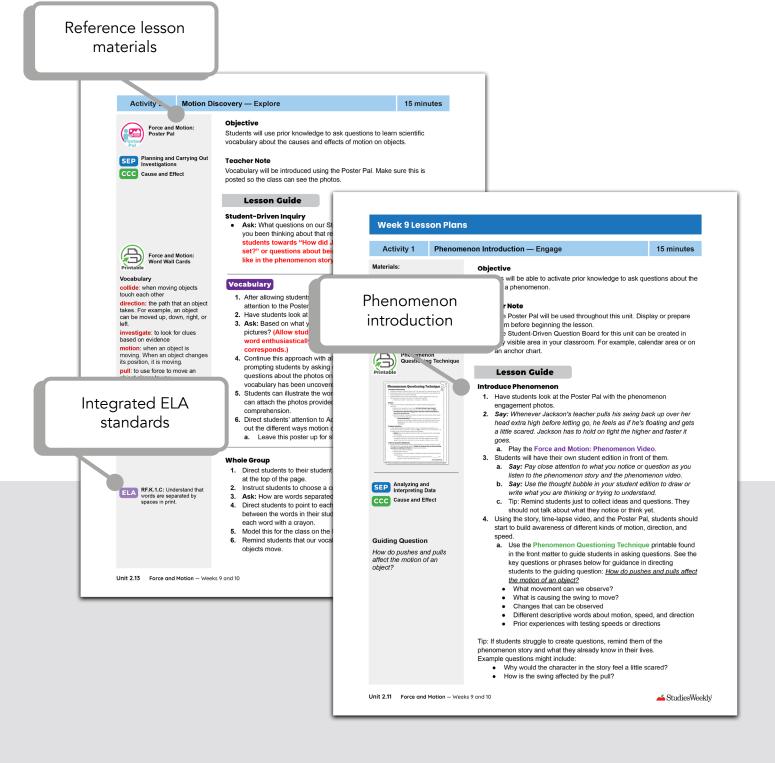
^{*}Studies Weekly awards PD credits for every completed PD session.



KINDERGARTEN STUDENT EDITION

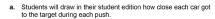






KINDERGARTEN TEACHER EDITION





a. Students with draw in their student eduction have close each car go to the target during each push.
b. They will circle what kind of push they used on each attempt in their student editions.
6. Dismiss teams to several locations around the room and monitor

Debrief

15 minutes

Suggested lesson

quide

- Gather the class. Direct their attention to the student edition.
 Ask: Who can explain, using evidence, what the results were of our test of different of

cars go fi Read the bigger pus Ask: Wha Write the

demonstra

word with

students' learning.

Suggestions for differentiation

rell students to common a paragraph and terror purpose when farther than the car with the small push, or signar claims.)

eloping

egically partner students who need more support with students who can a leadership role. For those who need extra help with fine motor skills, them to participate by watching.

ntific idea of big pushes and pulls. Challenge them to perform these tests report back the results to you.

Student Edition Response

tion and understanding.

students to think of three other items that could be used to test the same

ne whole lesson and answers in the student edition to ensure correct

Students will be able to collect evidence to determine the effect of different

pushes on an object's distance and speed. Data will be collected as

Activity 3 Car Race — Explore

Materials: masking tape

toy cars (one per pair)







SEP Planning and Conducting an Investigation



three feet wide 2. Using masking ta

To prepare for this activ

1. Clear several spa

Objective

 To measure the d
 race car pictures starting line.

evidence to support their understanding.

Suggestion: Tape second two paces, and the third three paces.

Lesson Guide

Student-Driven Inquiry

- 1. Ask: Based on what you know, can you share with a partner and use a vocabulary word to describe one way an object can move? (Students should share one or more vocabulary words with their
- 2. Pick up a toy car.
- a. Ask: How do you think you could make the car travel the furthest distance? (to push it really hard)

 3. Ask: Does pushing something hard make you think of something
- we've seen this week? (the phenomenon)
 4. Ask: Are there any questions on our Student-Driven Question Board related to our guiding question: How do pushes and pulls affect the motion of an object?
 - Guide students towards questions relating to pushes, speed, or strength of pushes.

Collaborative Learning

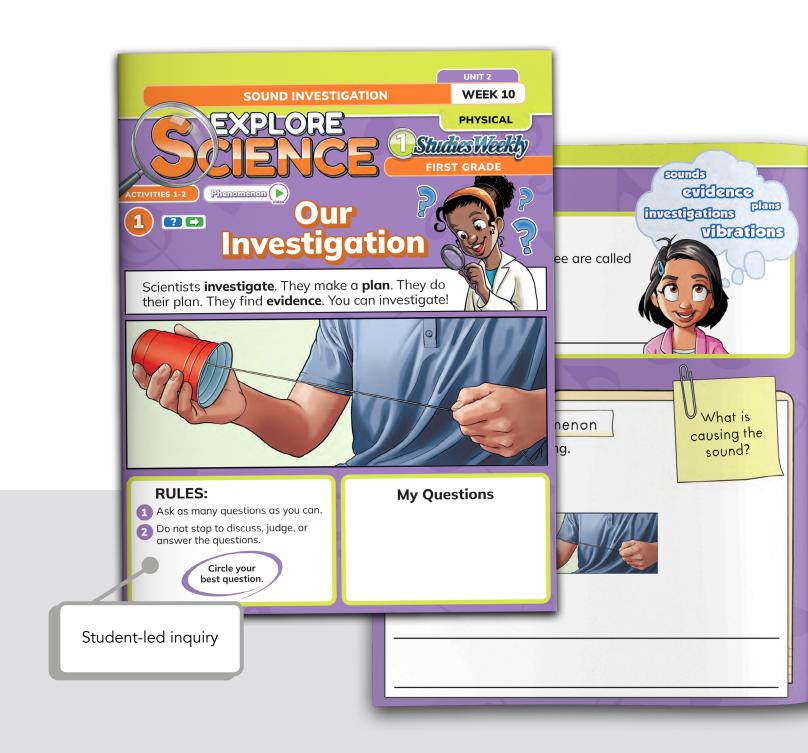
- 1. Direct students' attention to one of the racetracks taped on the floor.
- Tell students that they will have three tries. Their goal is to push their car hard enough to reach each target.
- 3. Point out the numbered race cars on the track and describe how they will be used to measure how far their car can travel.
 - a. Discuss procedural rules:

 The car must stay on the
 - The car must stay on the ground at all times.
 - Take turns.
- Follow the science rules for precise testing.
- 4. Choose two students to model a small push and big push with the toy cars at the starting line.
- 5. Direct students to their student editions and explain that they will perform three pushes, trying to reach target 1, target 2, and target 3.

 ${\bf Unit~2.15} \qquad {\bf Force~and~Motion} - {\bf Weeks~9~and~10} \\$

MAYIF K.MD.A.2: Directly compare two objects with a measurable attribute in common, to see which object has "more Of-l'ass of the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter.



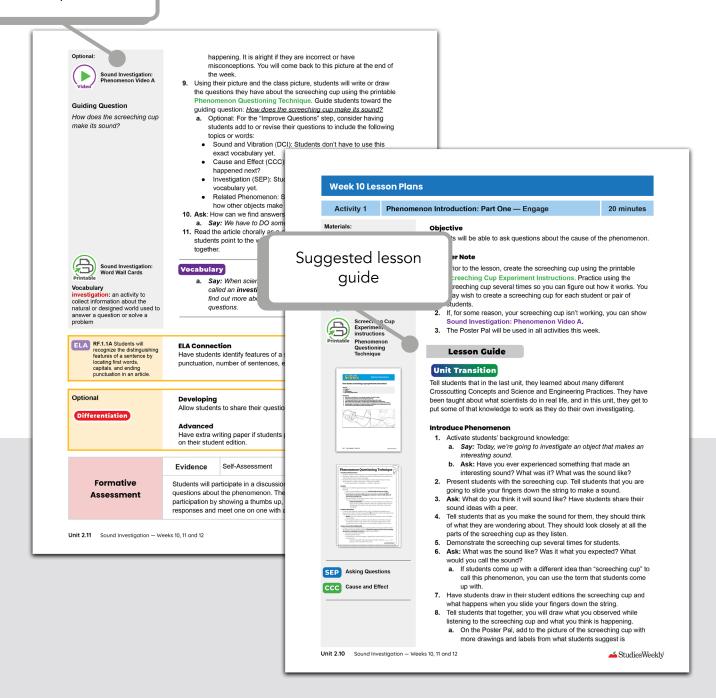


GRADE 1STUDENT EDITION





Reference media in the online platform



GRADE 1TEACHER EDITION



Lessons follow the 5E Model

- students to participate with you so they are prepared to do their own investigation for the next two weeks.
- 2. Ask: Using our Student-Driven Question Board, what are we trying to figure out through our investigation? (Answers could include: How the screeching cup makes sound or what causes the screeching cup to make a sound.)
- 3. Say: This is called the Investigation Purpose. Let's write it together.
 - a. Write the Investigation Purpose, starting with "We want to find out ..." on the Poster Pal, and have students write it in their student editions.

Activity 2

How to Investigate — Explore/Explain

40 minutes

- clipboards (one per student)
- prepared screeching cup(s) (see Activity 1)



Sound Investigation: Poster Pal



vibration; when an object moves quickly back and forth

Students will be able to collaboratively plan and conduct an investigation about the cause of the screeching cup's sound

Teacher Note

- 1. This lesson is designed to model how to plan and conduct an investigation so students are prepared to do their own investigations in subsequent weeks.
- You may wish to give each student their own screeching cup, have a few for small groups, or just have one to demonstrate with.

 If you are doing this activity on the same day as Activity 1, you may
- wish to stop after the activity introduction.
- Students will need to write in their student edition as you plan and conduct an investigation together. If you prefer students to be at their desks during this time, they can write there. If students are in a whole group setting without desks, clipboards are encouraged.
 - Tip: You may want students to sit on their clipboard are not actively being used.

ocabulary

- Say: Next, we need to plan what we will do in our investigation. A plan is a written list of ideas and steps that helps you do an
- Ask: What do we need to do to find out the cause of the screeching cup's sound?
- a. Using students' responses, create a list of steps in the Poster Pal of how you will find an answer to the guiding question
- **b.** You may need to ask some additional questions, such as:
 - Which part(s) of the screeching cup will we need to listen to? (Answers may include: We need to listen to all the parts to see where the sound is coming from.)
 - Which part(s) will we need to test for vibrations? (Ans may include: We need to touch all the parts of the creeching cup to see which parts are vibrating.)
 - Will we need to change anything with the screeching cup to figure out our answer? (Answers may include: We can try the screeching cup with one element missing and for each test.)

Tell students that when you plan an investigation, you have to think about what you might see and what it means.

should realize that through the investigation, they will be able to see evidence to answer their question about how the

If your idea is incorrect, what might or won't happen? Will the evidence help us answer our question? How? (Students

Discuss the following questions:

a. If your idea is correct, what will happen?

screeching cup makes sound.)

vn words or draw the steps of the

ditions. e will need to do our investigation. to do our investigation? Write or

Introduce Activity

Lesson Guide

- Ask: What question(s) did we decide we want to investigate
- Say: In order to start investigating, we need to look a little closer a our phenomenon. Pay attention to what you notice.
- Have students share something they noticed about the screeching cup with a peer.

- Some students will likely share that they notice fast back-and-forth movements. If they don't share this, do the following as a think aloud model starting with "I noticed parts of the screeching cup moving really fast. Who else noticed that?"
 - a. Say: These fast movements are called vibrations.
 b. Fill out the missing blank in the Poster Pal with the word
 - "vibrations." Have students copy the word in their student editions. Read the sentence together.
- Review the vocabulary words cause and effect with students. Bring students back to the guiding question and how you're trying to figure out how the screeching cup makes its sound. Tell students you want to know their ideas about what is causing the sound (effect).
- Have students write or draw their ideas about what is causing the sound in their student editions.

estigation

and 12

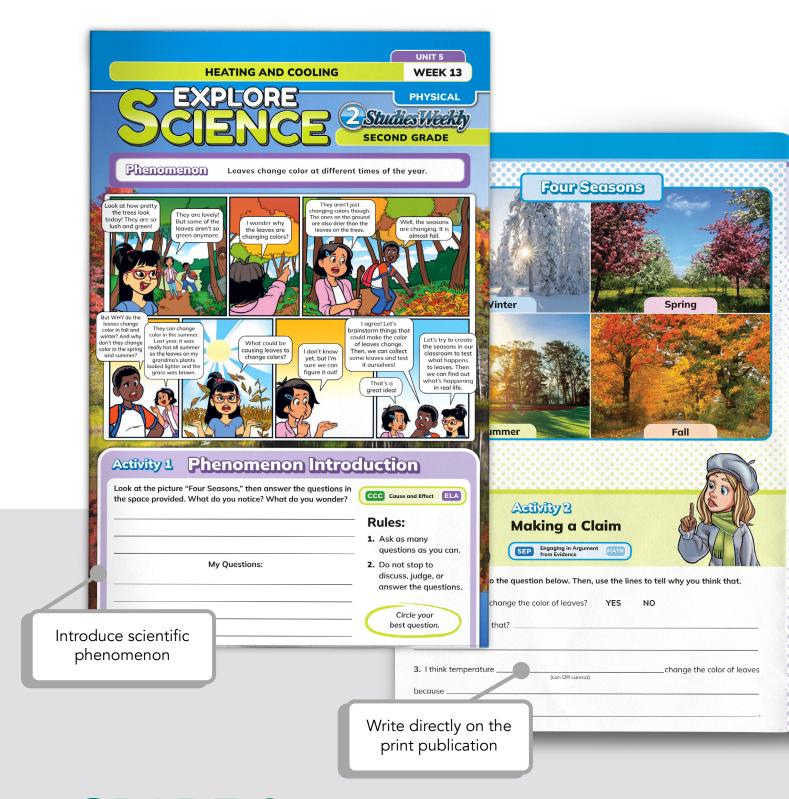
Integrated vocabulary

Whole Group

1. Tell students that today, you are going to walk them through how to plan an investigation and how to do an investigation. Encourage

Unit 2.12 Sound Investigation — Weeks 10, 11 and 12

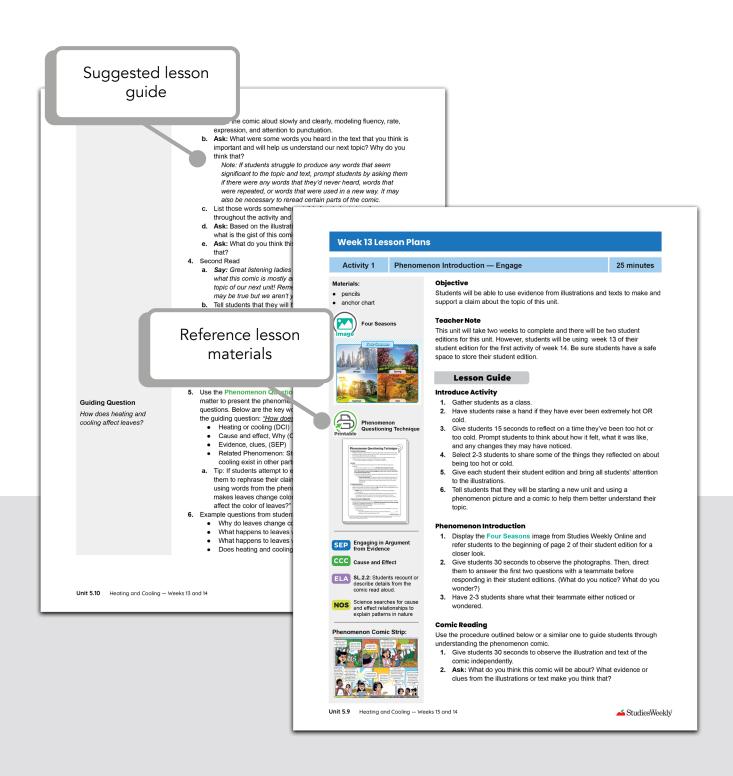
Discussion questions



GRADE 2STUDENT EDITION

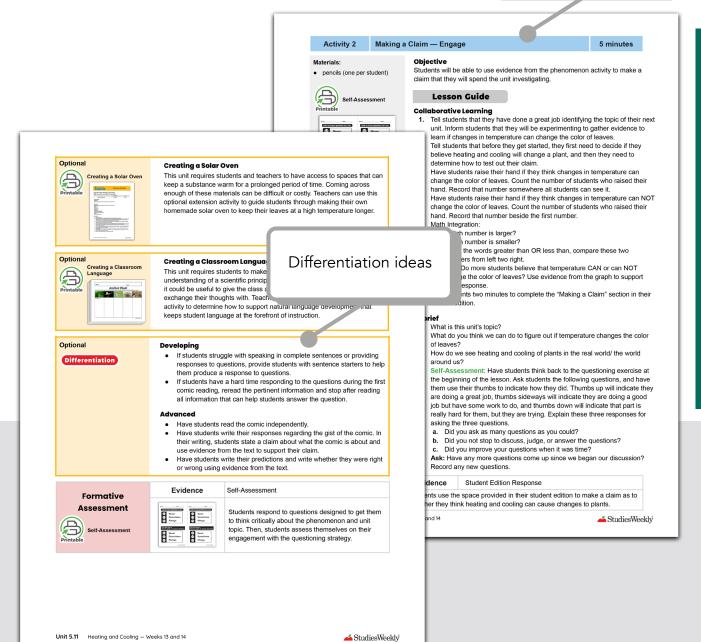




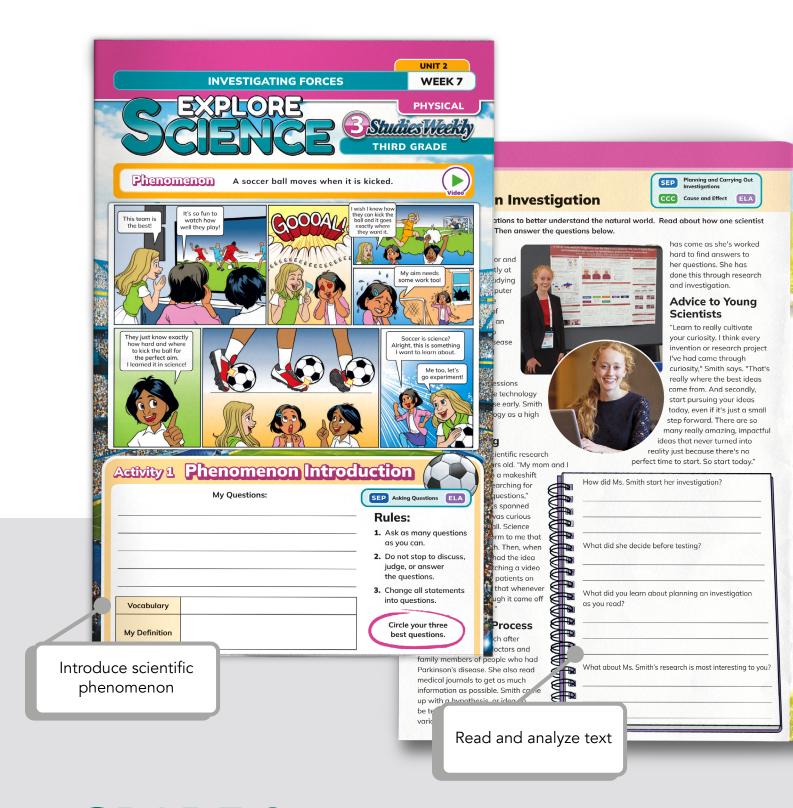


GRADE 2TEACHER EDITION

Lessons follow the 5E Model



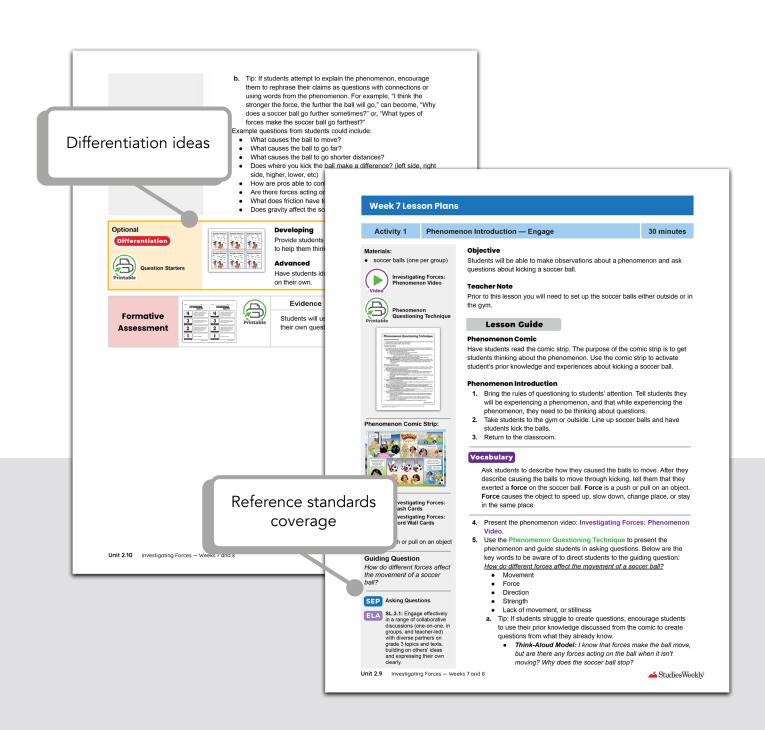
GRADE



GRADE 3STUDENT EDITION

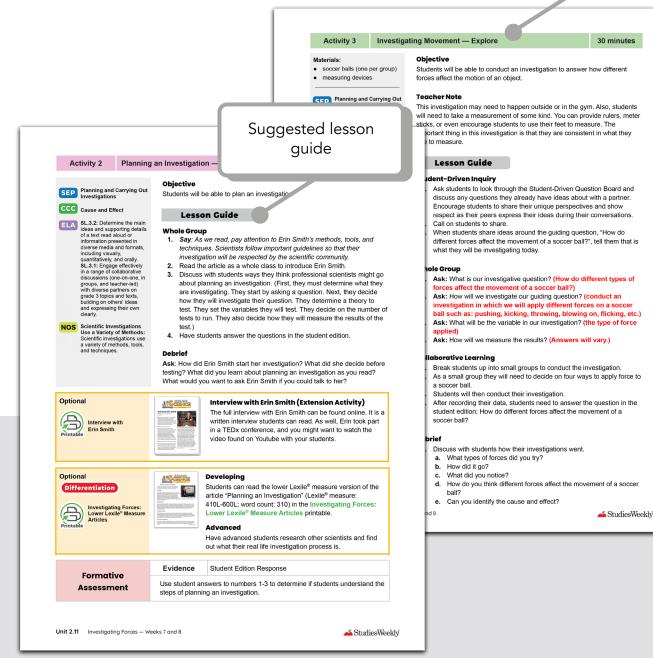


Activity 8 nvestigatin	ng Moven		Constructing Explanation Analyzing and Interpret Use Mathematics and C	ons ting Data			SEP, CCC Math co	, ELA, and
Describe the investigo	ation:	How do	different force	es affect cer ball?	duct hands- xperiments	on Inv	Planning and Carrying Constructing Explanati Analyzing and Interpret Use Mathematics and C CCC Cause and Effect estigative Ques The Course on a s A have it NOT me	ons ting Data Computational Thinking ELA MATH
ariable: Vhat are you going to Trial	o measure and ho	ow will you measur 2	re it?	4	estigation:	CC + 1400		
Force	-	2	3	4	ing to measure a	nd how will you mea	sure it?	
Measure the Movement					1	2	3	4
	es affect the move	ement of a soccer b	pall?					
ow do different forc								
					ces on a soccer b	all cause no moveme	nt?	
ow do different force		Му D	efinition		ces on a soccer b	all cause no moveme	nt?	
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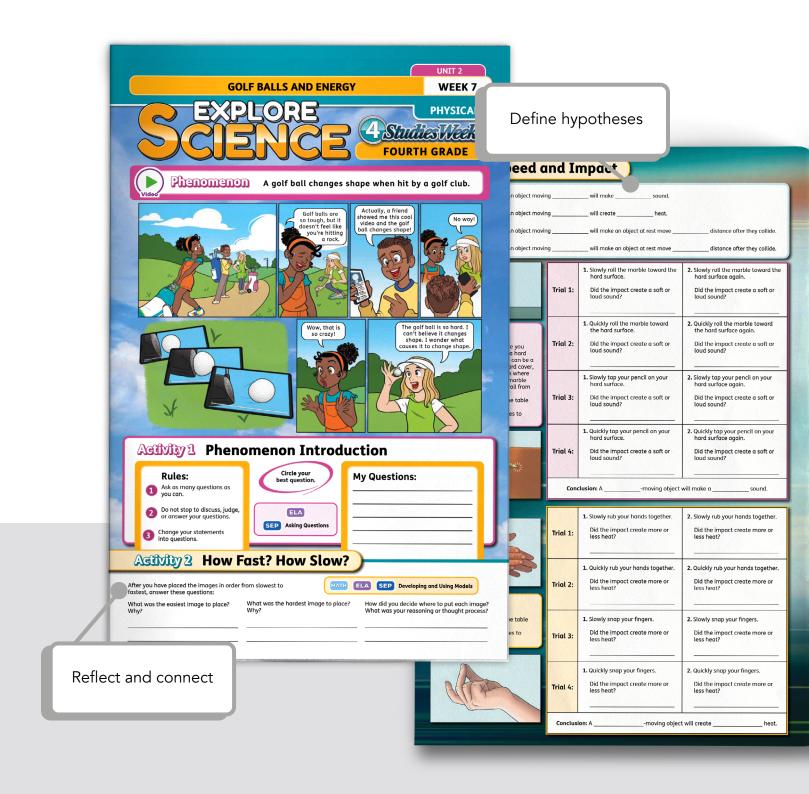


GRADE 3TEACHER EDITION

Lessons follow the 5E Model



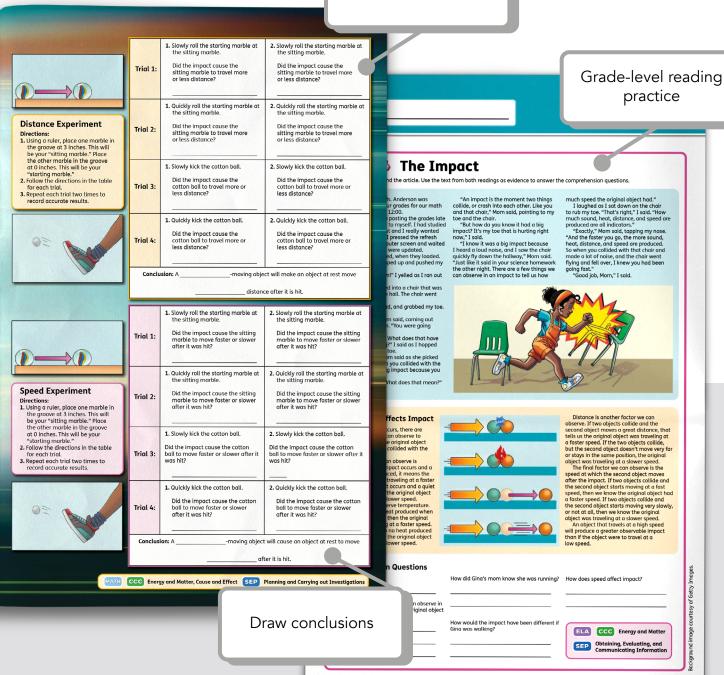
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GRADE 4STUDENT EDITION

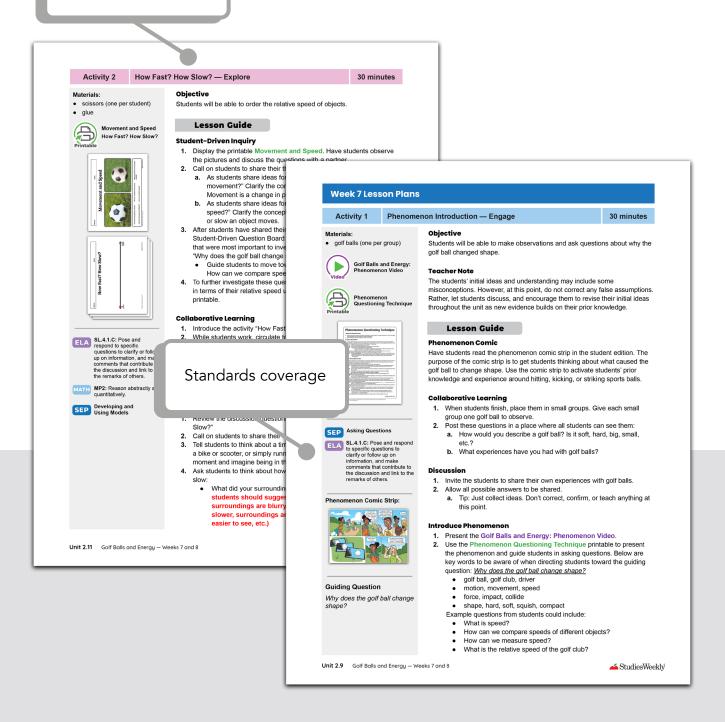


Conduct experiments



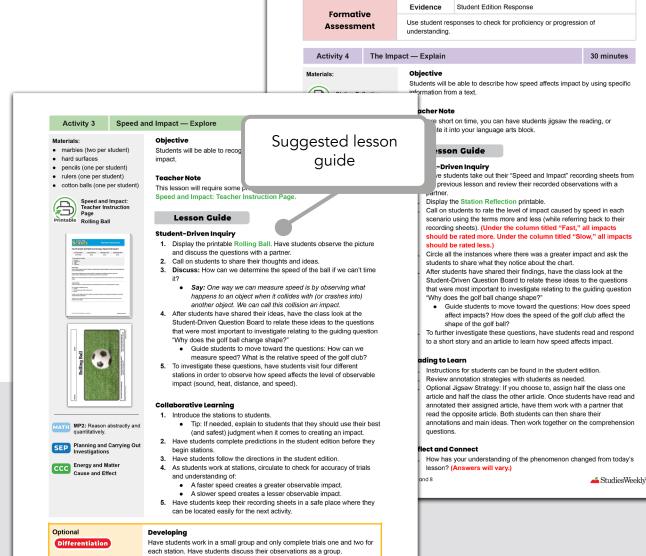
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Lessons follow the 5E Model



GRADE 4TEACHER EDITION

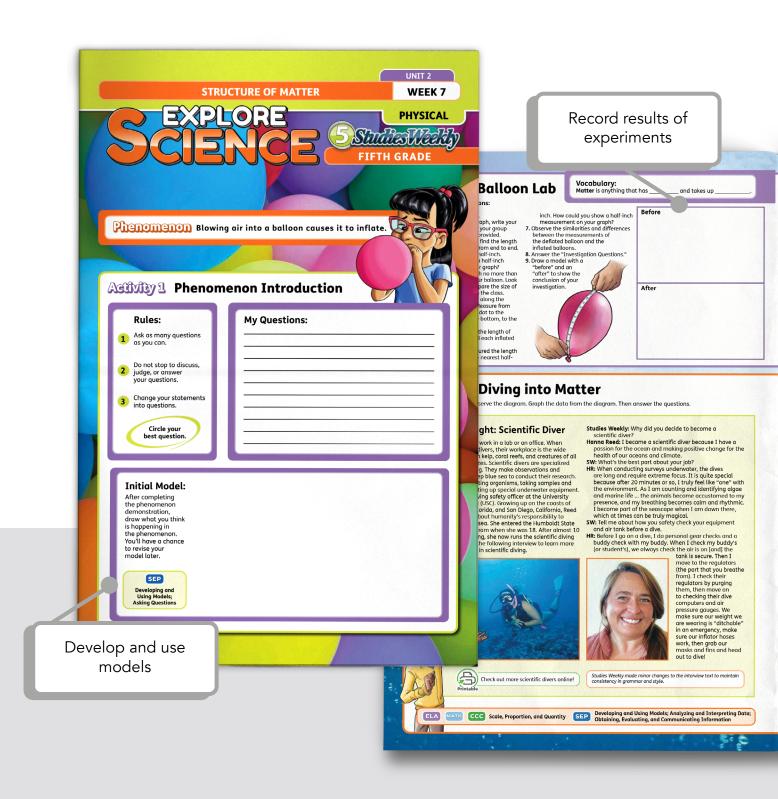
Ready-made assessments



Ask students to look for patterns in the observations they record.

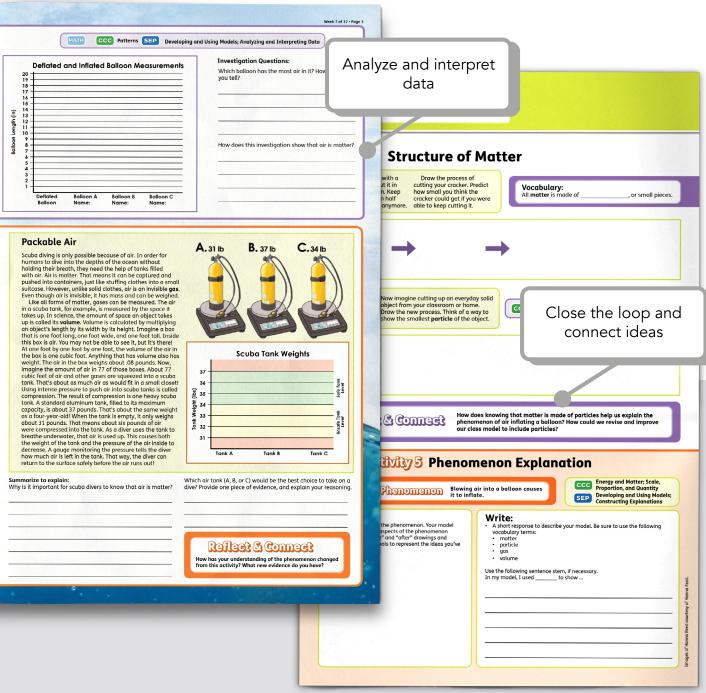
Unit 2.13 Golf Balls and Energy — Weeks 7 and 8



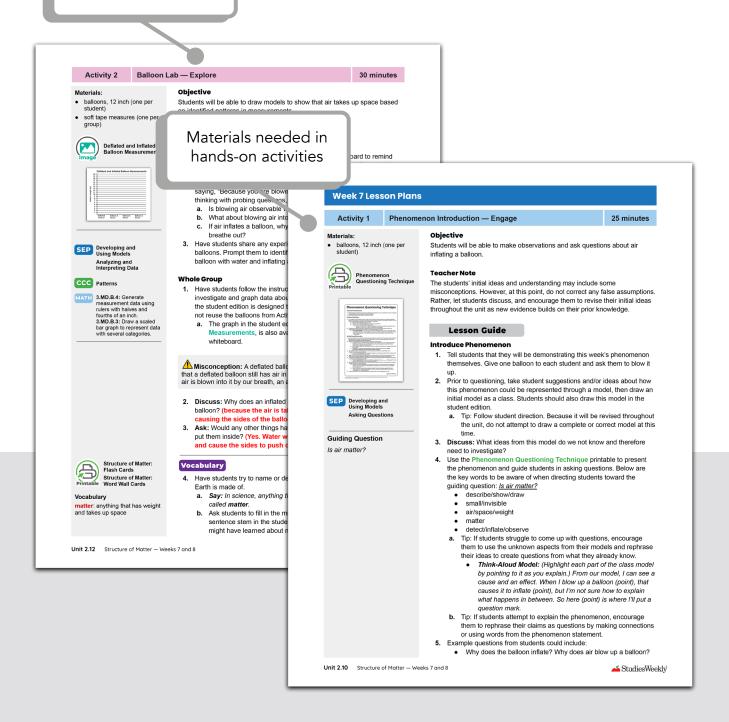


GRADE 5STUDENT EDITION





Lessons follow the 5E Model



GRADE 5TEACHER EDITION



Activity 3 Diving into Matter — Explore

Materials:

- balloons, 12 inch (2)
- cans of compressed air (3) prepared balance scale (1)
- digital scale (1)



Objective

Students will be able to colle compressed air, and an inve

Suggested lesson quide

Teacher Note

This activity is designed to be co.

to adjust grouping options according to your needs. To propare for this activity, refer to the Balance Scale: Teacher Instruction Page printable.

solid, color, temperature, etc.) in a previous grade, Encourage students to try using "matter" in a new sentence with a partner.

Address "space" as having multiple meanings:

- an area that is free, available, or unoccupied
- · outer space; everything beyond Earth's atmosphere
- 5. Discuss: What evidence do we have that air takes up space? Turn to a partner and share your reasoning. Be sure to provide feedback about your partner's reasoning. (Because the balloon inflated, we know that air takes up space because otherwise, nothing would have happened, like blowing into the air.)
- 6. Discuss: Do you think that air is matter? Does it act in the same way as water in a balloon would? (Answers will vary. Example: Maybe air is matter because it takes up space. But I know that water is a liquid, and air isn't observable like liquid water is. Plus, a balloon filled with water looks different than a balloon filled with air.)
- 7. Discuss: Do you think that air only exists in the balloon? (I know that I
- any revisions t "space" or "air" the balloon, etc

Differentiation strategies

Discuss the compone

Discuss the compone definition of matter says maximater has weight I don't know if air weighs anything. Plus, I con't say for sure that air is matter because I can't see it inside the fulloon.)

Optional



Advanced

Challenge advanced learners to track the progress of inflating the balloon by measuring the length of the balloon after each of the three breaths and recording their data in a line graph using the printable Balloon Lab: Differentiated Worksheet. Allow them to conduct this investigation at their own pace in pairs or small groups. (5.G.A.2)

Formative Assessment

Evidence

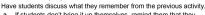
Student Edition Response

Use student graphs, models, and question responses to check for proficiency or progression of understanding.

Unit 2.13 Structure of Matter — Weeks 7 and 8



Lesson Guide dent-Driven Inquiry



 a. If students don't bring it up themselves, remind them that they
were still left with the question "Is air matter?" because they couldn't verify that air has weight. Have a discussion about what they could do to determine whether air has weight.

If students suggest weighing the balloons before and after inflation to see if the air adds weight, you may want to point out or demonstrate that on a typical scale, a balloon is so light that its weight might not show up. Tell them that things in nature exist from very small to very large, so it is important to have ways to detect and measure things on the extreme ends of this spectrum.

Direct students' attention to the prepared balance scale Ask: What do you predict will happen when I place a deflated balloon and an inflated balloon on this balance scale? (Answers will vary.) Place a deflated balloon and an inflated balloon on opposite sides of the prepared balance scale and discuss the results. You may reuse two balloons from Activity 1 or 2.

Explain to students that air can also be observed in larger quantities. Show students a can of compressed air and, if any of them recognize what it is, ask them to share their experiences with it.

a. If students aren't able to identify it, clarify that the can has air packed tightly inside it. Regardless, explain that this can of air can

help us see our investigation on a larger scale.

Weigh each can of compressed air on the digital scale and record their weights in a table on the board.

Call on three volunteers and give a can to each of them. Tell them that on "go," they will have 30 seconds to release air from the can. They may release as much air as they want, even for as long as the full 30 seconds.

Ask students to make predictions about the weight of each can after air has been released.

Students will read the articles and observe the diagram in the student edition, then record the weight of each scuba tank on the bar graph to





Studies Weekly

Contact us for a quote!

studiesweekly.com/get-a-quote

