Inspire the Science Leaders of Tomorrow by Building Science Foundations for Students Today

- ✓ All-Inclusive Phenomena-Based Science
- Three-Dimensional Learning Designed for the California NGSS
- ✓ Powerful Support for California's K−5 Teachers and Students





All-Inclusive Science—In More Ways Than One!

All-Inclusive Kits at All-Inclusive Prices

Unit Kits include:

- Teacher's Guide (print and digital)
- Student Literacy Readers
- Lab equipment for investigations
- A robust library of digital resources

No yearly

licensing fees!





All-Inclusive Instruction—Three Ways to Learn

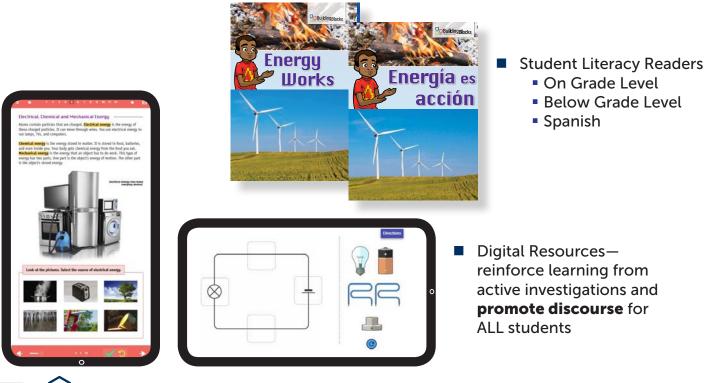
Active, hands-on investigations anchored in phenomena for all students



uilding Blocks

SCIENCE" 3D

 Over 300 hands-on investigations in which students model, investigate, and explain phenomena in 30-minute lessons

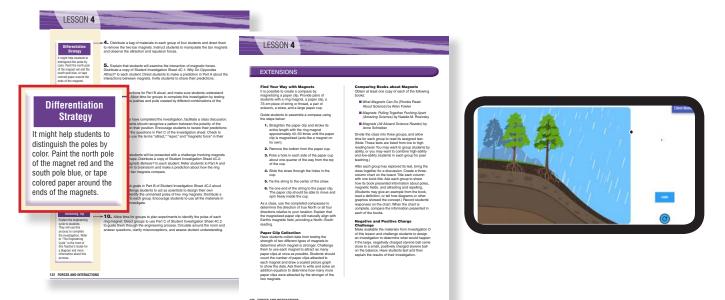




All-Inclusive Student Support—All Students, All Learners

Differentiation

- **Remediation strategies** to support and motivate underperforming students
- **Enrichment strategies** for students ready for a challenge.
- Digital resources build and apply understanding using simulations, interactive readers, interactive whiteboard activities, and Tell Me More formative assessment for today's learners



Supporting ELD Students

- Active investigation provides all students with equal, hands-on opportunities to investigate phenomena
- Proven, integrated strategies and leveled readers support ELD and ELL students
- **Spanish student resources** connect science concepts to support science vocabulary

Por qué los polos opuestos se atraen? Equipe: 2 mans de bara A. Predice ¿Como interactuarán los campos magnéticos de . Cobserva y registra B. Observa y registra	Fecha Artículo de lectura 4C Montañas rusas asombros Jamí Imagina una carro de montaña rusa du corra a toda vecidad por au descendor yau, induro va de e otabazi	Nombre Fecha	Fuerzas magnéticas Un indin time una fuerza que atera a ciertos minas esti cano de hiero y el acero. La fuerza de distancia. Un indin o mecesita tocar algo de acero para ataceño. La fuerza magnética actúa sobre el área que rodea al mina. Los puntos de limán dorde la fuerza magnética es más fuerte se ilaman poles. Hay dos tipos de polos: pulos moste y polos sur.	Los imanes pueden attaerse o regelerse. El polo norta de un imán atrae al polo sur de otos imán. Dos polos norte se repelen. Lo mismo pasa con dos polos sur. (onCepto (ransversa) Las puertas de las heladeras
A. Predice ¿Cono interactuarán los campos magnéticos de 	Montañas rusas asombros Zumi Integina una caro de montaña tas en la tada viedada por su pelas, Aranca como un cobete y Liego, desciende y ruiz, incluso va de cabezal	Fecha	metales, como el hierro y el acero. La fuerza de un insin se llama fuerza magnética, y es una fuerza a distancia. Un insin no necesita tocar algo de acero para atraerlo. La fuerza magnética actúa sobre el área que rodea al imán. Los puntos del imán donde la fuerza magnética en sis fuertes e aluman polos. Hay dos	atrae al polo sur de coto inián. Dos polos noirte se repelen. Lo mismo pasa con dos polos sur. (onCepto transVerSa)
B. Observa y registra	¡Zum! Imagina una carro de montaña rusa que corre a toda velocidad por su pista. Arranca como un cohete y, luego, desciende y gira. [Incluso va de cabeza!	Como puedes ver, los imanes y la	al imán. Los puntos del imán donde la fuerza magnética es más fuerte se llaman polos. Hay dos	fransversal
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Three-Dimensional Learning Designed for the CA NGSS

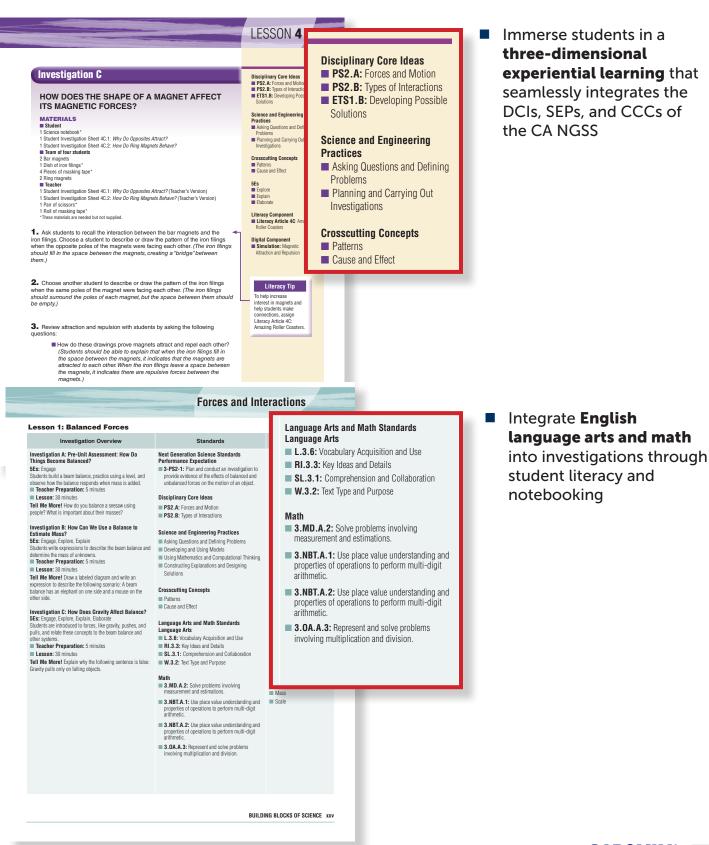
The CA NGSS are clear: students need phenomena-based, three-dimensional learning experiences. Building Blocks of Science I 3D provides the learning your students need and supports your instruction.



Building Blocks

BUILDING BLOCKS OF SCIENCE xxiii









Three-Dimensional Learning Designed for the CA NGSS

LESSON 1

Balanced Forces

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LESSON ESSENTIALS

Performance Expectation 3-PS2-1: Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of

an object. Disciplinary Core Ideas

PS2.A: Forces and Motion
 PS2.B: Types of Interactions

Science and Engineering Practices

Asking Questions and Defining

Problems
Developing and Using Models
Using Mathematics and
Computational Thinking

Construction Explanations and Designing Solutions

Crosscutting Concepts Patterns
 Cause and Effect

Literacy Component Forces and Interactions Literacy Reader, pgs. 4, 8

Digital Components[‡] Simulation: Balance

Simulation: Balance an Unknown Simulation: Tug-of-War [‡] Accessible at Carolina Science Online

ANCHORING PHENOMENON

All motion relies on the interactions of forces. Depending on the forces at work on an object, it may start, stop, change direction, or change speed. The mass of

ANCHORING PHENOMENON

All motion relies on the interactions of forces. Depending on the forces at work on an object, it may start, stop, change direction, or change speed. The mass of the object and the strength of the forces at work affect the resulting motion of the object. The anchoring phenomenon for Forces and Interactions is recognizing the interactions between forces at an amusement park.

Investigative Phenomenon for Lesson 1: The Giant Drop is a roller coaster that takes the car far up a track in the air, where it pauses for a long time. Suddenly, the car is released, and it moves to the bottom of the track at a very high rate of speed. You decide to ride the Giant Drop with your friend. You choose seats next to each another, but before the operator starts the ride, he asks your friend to move over to the other side of the ride to create balance. He says that the ride is not safe if it is not balanced. What does this make you wonder?

Investigative Phenomenon for Lesson 1: The Giant Drop is a roller coaster that takes the car far up a track in the air, where it pauses for a long time. Suddenly, the car is released, and it moves to the bottom of the track at a very high rate of speed. You decide to ride the Giant Drop with your friend. You choose seats next to each another, but before the operator starts the ride, he asks your friend to move over to the other side of the ride to create balance. He says that the ride is not safe if it is not balanced. What does this make you wonder?

- Anticipated Questions:
- Why does the Giant Drop fall so guickly?
- Why did the ride have to be balanced?
- What makes the ride stop?

students work with a beam balance and make observations about its behavior when objects are added to each side. Later, they practice using standard masses and writing expressions to describe the masses of unknown objects. The force of gravity is used to describe the effect when mass is added only to one side of the beam balance. Other forces, like pushes and pulls, are introduced to provide a foundation for Newton's first law of motion, inertia, which states that in order to set an object in motion, some kind of force must be applied. In the next lessons, students will investigate unbalanced forces that change an object's direction or speed.

Start each unit with an **Anchoring Phenomenon** discussion and video.



Move to an Investigative Phenomenon in each lesson that is supported by hands-on learning.

32 FORCES AND INTERACTIONS

Phenomenon

Review students' questions about the investigative phenomenon from the beginning of this lesson. Guide students in applying the concepts explored in this lesson and connecting them to the anchoring phenomenon: identifying the interactions of forces at an amusement park. By the end of the lesson, students should be able to explain that:

- Gravity causes objects to fall. It is the force that pulls the Giant Drop to the ground.
- When something is balanced, there are equal forces acting on it. When something is unbalanced, one force is greater than another. There are balanced forces when the Giant Drop car has stopped at the top of its track
- When your friend sat next to you, the mass was too great on one side of the roller coaster, causing the ride to become unbalanced.

Reflect on the **Investigative Phenomenon** at the end of each lesson.





LESSON 6

ENVIRONMENTAL CONNECTIONS

Given the implications for the future, it is vital that students are aware of the interactions between natural systems and human activity. This lesson incorporates environmental principles and concepts that are important for students to recognize. Students focus on how natural processes of weathering, erosion, and deposition can impact humans. They think about how humans influence these processes and potentially affect the environment. Using stream tables as models, students examine the potential effects of soil erosion on living things and design solutions to limit the impact. They draw comparisons between their models and real-life methods for controlling soil erosion and consider which materials provide long-term protection and which might have an impact on the environment



Connect investigations to CA Environmental Principles and Concepts

LESSON 5

EXTENSIONS Plugging the Volcano In science-fiction movies, brilliant scientists invent fanciful machines to solve outrageous problems. Have students think about the sci-fi movies they have seen. What are some of the problems the world faces, and how do the scientists solve them? As a class, make a list of these movies. Then list the problems and solutions presented in each. Put a check mark next to the solutions that students believe could someday happen and cross out those they think are too outrageous to ever happen. Next, discuss the possibility of some of these solutions.

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2. Invest

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5. Use the evaluate st concepts.

From *Changing Earth*, grade 4

ENVIRONMENTAL CONNECTIONS

Given the implications for the future, it is vital that students are aware of the interactions between natural systems and humans. This lesson incorporates environmental principles and concepts that are important for students to recognize. In Investigation A, students examine their potential impact on different habitats and consider how their use of resources affects the living and nonliving things in those habitats. Each habitat has its own natural cycles and availability of resources, such as water, shelter, and food. When humans inhabit a region, they also require access to these resources and may disrupt the existing cycles. Sometimes human impact can be positive, but more often, humans negatively affect environments, impacting the survival, growth, and reproduction of plants and animals. Students are challenged to consider what changes they can make to limit the negative impacts and enhance the beneficial impact.



EXTENSIONS

Campus Beautification Day Schedule a campus beautification day. Invite other students, teachers, parents, and community members to campus to pull weeds, plant a tree, plant flowers, create a garden, or start an on-campus compositing project. Ask for donations from local businesses.



Recycled Art

Challenge students to create an art project using only "used" materials. You may even decide to collect materials for the project in your recycling bin in the classroom. Explain to the class that these items were thrown away but you will be giving them new life.

ASSESSMENT STRATEGIES

1. Investigation A

Review Student Investigation Sheet 5A: What If I Lived in a Different Habitat? to determine if students can identify sources of food, water, and shelter in different habitats. Students should also demonstrate knowledge of human responses to different climates.

2. Investigation B

Use each pair's Living Things Matrix to gauge their depth of knowledge about the interdependence of nonliving and living things in different habitats. Students should show deeper knowledge of habitats compared to the matrix from Lesson 1.

3. Use the Assessment Observation Sheet for this lesson to formatively assess your class, and adjust instruction as needed.

4. Use the General Rubric in Appendix A to assess individual progress.

 Use the summative assessment to help evaluate students' understanding of key unit concepts.

LESSON 5 RELATIONSHIPS IN AN ECOSYSTEM 119

From Ecosystem Diversity, grade 2



Powerful Support for Teachers

Plant and Animal Structures

Lesson 1: Structures Used for Survival

Investigation Overview

Investigation A: Pre-Unit Assessment: How Are an Organisms' Structures Adapted for Its Environment?

5Es: Engage

As a pre-unit assessment, students consider how different structures are linked to the survival, growth, and reproduction of organisms.

Teacher Preparation: 10 minutes Lesson: 30 minutes

Tell Me More! A kangaroo keeps its baby in its pouch until the baby is old enough to walk and find food on its own. Is a kangaroo's pouch a structure for survival, growth, or reproduction? Explain.

Investigation B: Will Seeds Grow Inside a Plastic Bag?

5Es: Engage, Explore

Students plant radish seeds in a plastic bag and make predictions about their growth.

Teacher Preparation: 20 minutes

Lesson: 30 minutes

Tell Me More! Some plants grow faster than others. An oak tree can take more than 30 years to grow to its full size. A rose bush will take about six weeks to begin to flower. Does the same idea relate to animals? Do animals grow at the same rate? Provide examples.

Standards

■ 4-LS1-1: Construct an argument that plants and

animals have internal and external structures that

function to support survival, growth, behavior, and

Next Generation Science Standards

Performance Expectation

reproduction.

Disciplinary Core Idea

Crosscutting Concept

Language Arts

Math

Systems and System Models

RI.4.1: Key Ideas and Details

RI.4.2: Key Ideas and Details

RI.4.3: Key Ideas and Details

W.4.1: Text Types and Purposes

W.4.2: Text Types and Purposes

to solve problems

LS1.A: Structure and Function

Science and Engineering Practice Engaging in Argument from Evidence

Language Arts and Math Standards

SL.4.1: Comprehension and Collaboration

4.0A.A: Use the four operations with whole ni

Resources

Student Investigation Sheets

 Student Investigation Sheet 1A: Can You Sort the Structures?
 Student Investigation Sheet 1B: Will the Radish Seeds

Grow?

Digital Components

LESSON 2

Differentiation Strategy

Students may struggle

to distinguish between

internal and external structures. Encourage

them to copy the definition of each term into their science notebooks and

circle the prefix for each

("In-" and "Ex-"). Remind students that "in-" refers to "inside" and "ex-" is similar to "exit."

Differentiation

Strategy

Assist below-level students by printing

photos of different

vertebrates and invertebrates. Ask

students to categorize

Effective science instruction that fits into your busy day

- Three units per grade level provides a complete year of instruction
- Lesson preparation averages 10 minutes
- Investigations average 30 minutes
- How do the different appearances of these structures provide evidence of animal adaptations? For example, think about a snake, an anteater, and a lion. (Structures are shaped differently to help an animal survive in its environment. The shape of a mouth is directly related to what an animal eats, which is different for each animal and depends on which resources are found in an environment.)
- 3. Define "external structure" as a body part that is found on the outside of an organism. Explain that animals also have internal structures, which are found inside the organism. Identify lungs as an internal structure used for breathing. Allow time for students to individually develop a list of external and internal structures of animals.

4. Encourage students to share structures from their list to distinguish between internal and external structures. Emphasize that not all animals have the same structures. For example, not all animals have wings. Some animals have a heart, but other animals have more than one. Remind students that different animals have internal and external structures that are specially adapted to their environment.

5. Focus on the skeletal system. Ask students to feel their spine, wrist, and knee. Ask:

- What are the hard structures you feel when you touch your spine, wrist, and knee? (Bones)
- Do all animals have these structures? (No, some animals, such as insects and some types of marine animals, do not have bones).
- What do bones do? Use evidence to explain your answer. (Bones protect internal structures. We know this because the bones surround our organs.)
- How can an animal protect its insides if it doesn't have a skeleton? (Answers will vary. Students should recognize that shells or the hard outer covering of insects and marine animals work like a skeleton to protect internal organs.)
- 6. Explain that animals can be separated into two categories: vertebrates (with skeletons) and invertebrates (without skeletons). Display the chart titled "Vertebrates and Invertebrates" and instruct students to copy it into their science notebooks. Allow time for students to work with a partner to list examples of vertebrates and invertebrates.

the photos. Challenge above-level students to argue which form of skeleton is better suited for protection.

Teaching Tip

Challenge students by asking them to think

- about how animals grow and develop differently with exoskeletons and endoskeletons. You may want to discuss molting, or shedding, which is
- or shedding, which is common for animals with exoskeletons.

54 PLANT AND ANIMAL STRUCTURES





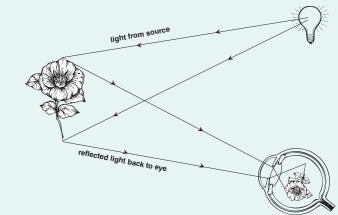
Whether you're a veteran or a first-year teacher, your Teacher's Guide has everything you need to support 30-minute lessons:

- Comprehensive planning guide
- Background information
- Guiding questions
- Differentiation strategies and teaching tips
- Lesson-by-lesson teacher prep videos

LESSON 5

BACKGROUND INFORMATION

The human eye, like the eyes of most mammals, works somewhat like a camera. First, light needs to reflect off an object or be emitted from an object, like a lamp. Without light, it is not possible for us to see. When light bounces off an object, it enters the eye through the **cornea**. From there, the light passes through an opening called the **pupi**. The pupil can change size thanks to the muscular **iris**, the colored part that surrounds it. In low light, the iris relaxes and the pupil gets larger. This larger opening allows more light in and improves our ability to see objects in low light. If the light is bright, very little needs to be let into the eye, so the iris contracts and makes the pupil very small.





After light passes through the pupil, it hits the **lens**, which is located directly behind the iris. The lens focuses all the light coming into the eye. The focused light then travels through a gelatinous material called the vitroous humor and hits the back of the eye, or the **retina**. The retina is made of rods and cones that allow us to see color and that change the image into something the brain can understand. The image that is created as light hits the tist be uside down and backward compared to the original. Refer to Figure 5.1 for reference.





LESSON 5 EXPLORING THE EYE 155

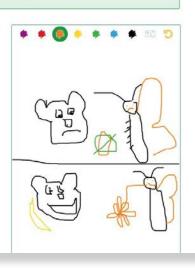


Powerful Support for Teachers

Tell Me More: Lesson 3 Investigation B 🕐

Many types of plants live in the rainforest. Many animals, including monkeys, butterflies, and birds, eat passionfruit. However, passionfruit is not the only source of food for these animals. Describe the effect if all the passionfruit trees were removed from the rainforest.

If there was no more passionfruit there would be more competition for other foods that they all eat. They probably have other foods they eat. Monkeys could eat bananas and butterflies could get nectar from flowers.



Three-Dimensional Assessment System

Pre-Unit and Formative Assessments, including Tell Me More prompts, gauge levels of student understanding and guide instruction.

Summative Assessment

1. When an object is held in the air, it has stored energy. When the object is released and begins falling, it experiences ______.

2.

з.

Name

Date

- a. electrical energy
- b. transferred energy
- c. motion energy
- d. collision energy

2. Match each appliance below with a. Oven 1.

a. Oven
 b. Blender

c. Stereo d. TV

3. Match each action below with the

a. A guitar string vibrates

b. A wind-up toy moves

 A streetlight absorbs sunlight during the day and glows at night

 A tennis player uses food energy to play a match

4. A bike, a truck, and a train—all wi same hill. Put the vehicles in order from (least) _____ →___

5. Consider the scenario in Questior the bottom of the hill. Which of the foi a. When the truck and car col slowly comes to a stop.
c. When the truck and car col d. When the truck and car col d. When the truck and car col d. When the truck and car col

Summative Assessment Item Number	Performance Expectation Addressed	Lessons to Revisit
1	4-PS3-1	Lesson 2
2	4-PS3-2	Lesson 3
3	4-PS3-2	Lesson 3
4	4-PS3-1	Lesson 2
5	4-PS3-3	Lesson 2
6	4-PS3-2	Lesson 3
7	4-PS4-1	Lesson 4
8	4-PS3-4	Lesson 6
9	4-PS3-3	Lesson 3
10	4-PS4-1	Lesson 4
11	4-PS4-3	Lesson 4
12	4-ESS3-1	Lesson 5
13	4-ESS3-1	Lesson 5
14	4-PS3-4	Lesson 5
15	4-PS3-2	Lesson 3

The chart below shows which lessons support the unit's performance expectations. Based on the

outcome of each student's summative assessment, you can develop remediation strategies using the relevant lessons from the unit.

Summative Assessment Remediation Strategies

Building Blocks

10

Final Lesson's Assessment evaluates

Performance Expectations with a

Summative Assessments students

demonstrate their understanding of

content by answering questions in

a variety formats that are aligned

to the Performance Expectations.

students' mastery of the

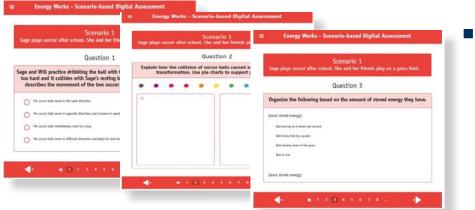
performance task.

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Summative Assessment Remediation Strategies







APPENDIX A

Feacher Sheet 6C

Scenario-Based Digital Assessment

challenges students to apply their understanding of content to questions presented in a variety of contexts.

Teacher Sheet 6C

My Energy Experiment Rubric

						Exploration	
4	Plan Group's planning reflects a high level of interest and a problem-solving mindset.	Question Group expresses questions that demonstrate interest and curiosity and frames questions so that they can be answered through experimentation.	Conclude Group's conclusions reflect a clear (yet age- appropriate) grasp of both the content and how experimentation reinforces understanding of the content.		4	Student displays a high level of interest by asking questions, building on concepts, and testing ideas. Provides input and participates in group settings.	Stu var inc sci tha aco Wr lev of a
3	Group shows confidence in the prospect of engaging with materials to explore concepts.	Group demonstrates curiosity with open-ended "why" and "how" questions.	Group completes "because" answers with confidence and little prompting.		3	Student ramains engaged by participating, building on concepts, and testing ideas. Rarely asks questions but is cooperative in group settings.	Stu voo apj voo aco
2	Group makes some connection between questions and possible uses of materials to answer them. Group may require prompting to move forward.	Group can consider and expand upon question prompts but does not engage in self-driven inquiry.	Group records observations but struggies to process them into applicable conclusions.		2	Student participates in investigations but does not appear to be building on concepts, asking questions, or providing input in a group setting.	Stu is li sci but the Wri exp be
1	Entries reflect little or no recognition of experimentation as a means to answer questions.	Group has difficulty formulating self-originating questions related to science inquiry.	Group does not record logical connections between observations of outcomes and their relevance.		1	Student may not participate in investigations and/or may struggle with building upon concepts. Student rarely asks questions or provides input.	Stu des in v sci is r inc
				232 E	NERGY \	VORKS	

Rubrics provide guidance to gauge student performance and understanding.

Quality Science Equipment You Can Count On

Carolina Biological Supply Company's scientist-educators have worked diligently to select, design, and test activity-based materials that meet the performance and durability required to complete the units' investigations.

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Student's respon during investigat

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key ideas and struggl to form in-depth



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Supporting California Teachers Who Aspire to Inspire *Learning Framework*

Kindergarten	Push, Pull, Go K-PS2-1; K-PS2-2; K-2-ETS1-1;K-2-ETS1-2	Living Things and Their Needs K-LS1-1; K-ESS2-2;K-ESS3- 1;K-ESS3-3; K-2-ETS1-2	Weather and Sky K-PS3-1;K-PS3-2;K-ESS2-1; K-ESS3-2; K-2-ETS1-1; K-2-ETS1-2
1st Grade	Light and Sound Waves 1-PS4-1; 1-PS4-2; 1-PS4-3; 1-PS4-4; K-2-ETS1-1; K-2-ETS1-2	Exploring Organisms 1-LS1-1; 1-LS1-2; 1-LS3-1; K-2-ETS1-2	Sky Watchers 1-ESS1-1; 1-ESS1-2
2nd Grade	Matter 2-PS1-1; 2-PS1-2; 2-PS1-3; 2-PS1-4; K-2-ETS1-1; K-2-ETS1-2	Ecosystem Diversity 2-LS2-1; 2-LS2-2; 2-LS4-1; K-2-ETS1-2; K-2-ETS1-3	Earth Materials 2-PS1-1; 2-ESS1-1; 2-ESS2-1; 2-ESS2-2; 2-ESS2-3; K-2-ETS1-1; K-2-ETS1-2
3rd Grade	Forces and Interactions 3-PS2-1; 3-PS2-2; 3-PS2-3; 3-PS2-4; 3-5-ETS1-1; 3-5 ETS1-2	Life in Ecosystems 3-LS1-1; 3-LS2-1; 3-LS3-1; 3-LS3-2; 3-LS4-1; 3-LS4-2; 3-LS4-3; 3-LS4-4; 3-5-ETS1-2	Weather and Climate Patterns 3-ESS2-1; 3-ESS2-2;3-ESS3-1; 3-5-ETS1-2
3rd Grade 4th Grade	3-PS2-1; 3-PS2-2; 3-PS2-3; 3-PS2-4; 3-5-ETS1-1;	3-LS1-1; 3-LS2-1; 3-LS3-1; 3-LS3-2; 3-LS4-1; 3-LS4-2; 3-LS4-3; 3-LS4-4;	Patterns 3-ESS2-1; 3-ESS2-2;3-ESS3-1;

Need more information? Contact us at cascience@carolina.com or visit carolina.com/cascience

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