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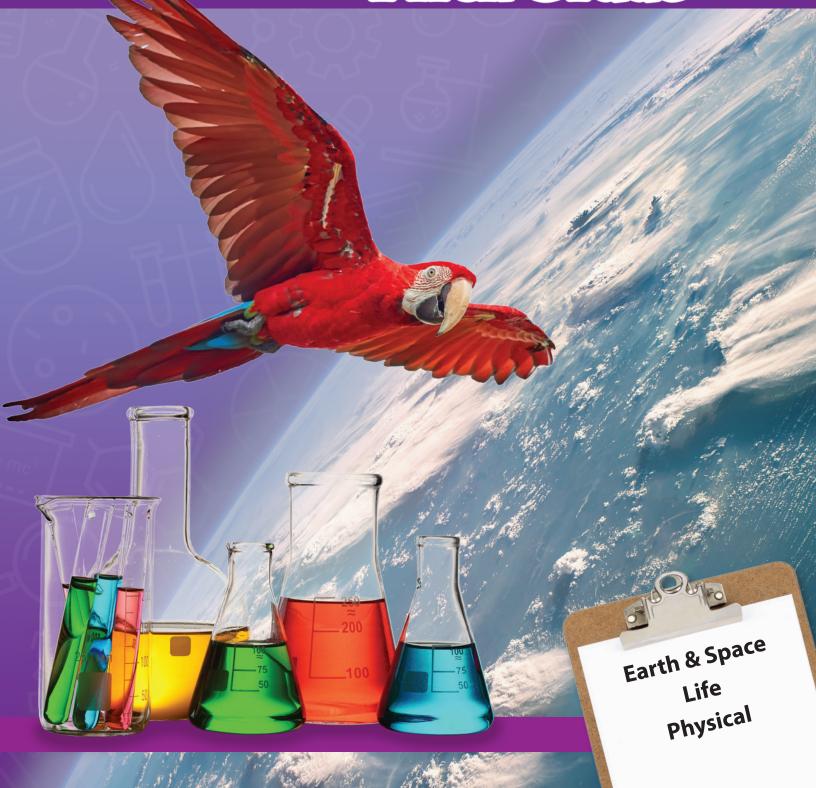
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PRACTICE - ASSESS - DIAGNOSE

180 Days of SCIENCE STRUCTURE



PRACTICE - ASSESS - DIAGNOSE

SCIENCE SCIENCE for Fifth Grade

SHELL EDUCATION

Earth & Space Life Physical

Table of Contents

Introduction 3
How to Use This Book
Standards Correlations
Daily Practice Pages
Answer Key
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Introduction

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Weekly Structure

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	4	When Combining Matter, Mass Stays the Same
	5	Mass Stays the Same When Water Changes States
	6	Identifying Powers and Minerals
	7	Properties of Metals
	8	Creating New Substances-Physical and Chemical Changes
9		Understanding Physical and Chemical Changes
	10	How Energy from the Sun Feeds Us
	11	How Energy Flows through Food Chains
	12	Gravity
	1	Oceans and Ecosystems
	2	Winds and Clouds in Mountain Ranges
	3	Fresh Water in Rivers and Lakes
	4	The Polar Ice Caps
	5	Agriculture, Industry, and the Environment
Earth and Space	6	Protecting Our Water Sources
Science	7	Earth's Orbit
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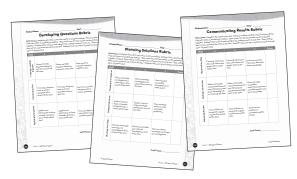
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Best Practices for This Series

- Use the practice pages to introduce important science topics to your students.
- Use the Weekly Topics chart on page 5 to align the content to what you're covering in class. Then, treat the pages in this book as jumping off points for that content.
- Use the practice pages as formative assessment of the science strands and key topics.
- Use the weekly themes to engage students in content that is new to them.
- Encourage students to independently learn more about the topics introduced in this series.
- Lead teacher-directed discussions of the vocabulary and concepts presented in some of the more complex weeks.
- Support students in practicing the varied types of questions asked throughout the practice pages.
- When possible, have students participate in hands-on activities to answer the questions they generate and do the investigations they plan.

Using the Resources

An answer key for all days can be found on pages 194–206. Rubrics for Day 3 (developing questions), Day 4 (planning solutions), and Day 5 (communicating results) can be found on pages 210–212 and in the Digital Resources. Use the answer keys and rubrics to assess students' work. Be sure to share these rubrics with students so that they know what is expected of them.



Name:	Date:	

The Life Cycle of Reptiles

Snakes and lizards are reptiles. Alligators and turtles are reptiles, too. All reptiles go through similar stages in their life cycles. The stages are egg, hatchling, juvenile, and adult. Many hatchlings and juveniles look just like tiny adults. However, they are much, much smaller!

Mothers usually bury their eggs in loose soil or sand. The number of eggs varies greatly by species. Some reptiles lay only one or two eggs, while others lay 100 or more. They typically do not stay with their young. When they hatch, the animals are on their own.





- 1. Which one of the following is **not** a reptile?
 - **a.** snake
 - **b.** frog
 - **c.** lizard
 - **d.** turtle
- **2.** All reptiles ______.
 - **a.** live in water
 - **b.** have many teeth
 - **c.** have hair
 - **d.** have a hatchling stage
- 3. What are some ways a reptile's life cycle is different from your life cycle?

Analyzing Data

Name:	ι	Date:	
_			

Directions: Plants A, B, and C are the same type of plant. Study the chart, and answer the questions.



	Plant A	Plant B	Plant C
Water given per week	2 cups	2 cups	1 cup
Sunlight	full sun	partial sun	full sun
Growth in two weeks	3 inches	2 inches	1 inch

- **1.** What is affecting the growth of the plants?
 - a. water

b. air

c. sunlight

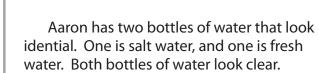
- **d.** water and sunlight
- 2. What is the best combination of water and sunlight for this type of plant?
 - **a.** two cups of water and full sun
- **b.** two cups of water and partial sun
- **c.** one cup of water and full sun
- **d.** one cup of water and partial sun
- 3. Since plant A grew the most, it made the most _____
 - **a.** food

b. water

c. air

d. sun

Name: Date:



He wants to know which is which.



- 1. What can he do to find out which bottle has the salt water?
 - **a.** Weigh them.
 - **b.** Look at them.
 - **c.** Listen to them.
 - **d.** Touch them.
- 2. What is another way that Aaron could find out which bottle has salt water?
 - **a.** He could let the water evaporate.
 - **b.** He could put food coloring in the water.
 - **c.** He could pour the water in the sink.
 - **d.** He could mix the two bottles of water together.
- 3. What is a question Aaron might ask about properties of the salt water?
- **4.** Do you think you could ever add so much salt to water that it wouldn't dissolve? Why or why not?

Name:	Date:	

Carla and her family are going camping. They decide to bring two coolers with them. One cooler has 36 lbs. of ice cubes, and the other cooler has 24 lbs. of ice cubes. Carla is not sure if the coolers will be the same weight as they started when the ice melts.



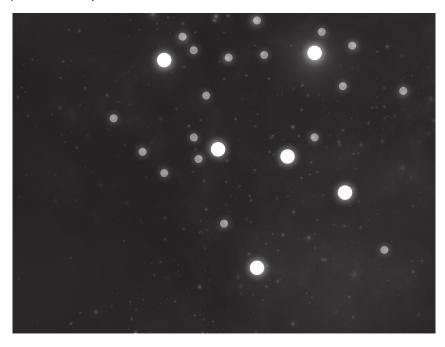


- 1. The ice fills the coolers to the top because there is a lot of space between the cubes. What will happen when the ice melts?
 - **a.** The water take up more space and overflow.
 - **b.** The water will take up less space than the ice.
 - $\boldsymbol{c.}\,$ The water will disappear when the ice melts.
 - **d.** The water will take up the same amount of space.
- 2. Would a solid block of ice take up a different amount of space than ice cubes?
 - **a.** Yes, because ice cubes have air between them, and a solid block doesn't.
 - **b.** Yes, because ice cubes expand more than a solid block of ice.
 - **c.** No, they take up the same amount of space.
 - **d.** No, it is impossible to create a solid block of ice.
- **3.** How can Carla create an experiment with the two coolers to prove that the weight of ice is the same as the melted ice?

ABC

lame:	Date:	

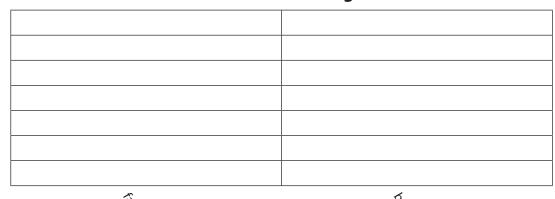
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Tally Chart				
Brightness of Stars	Number of Stars			
faint				
bright				

Number of Faint and Bright Stars

Number of Stars



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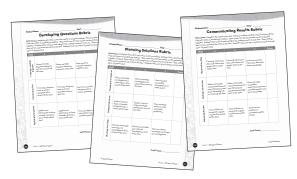
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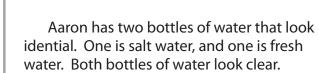
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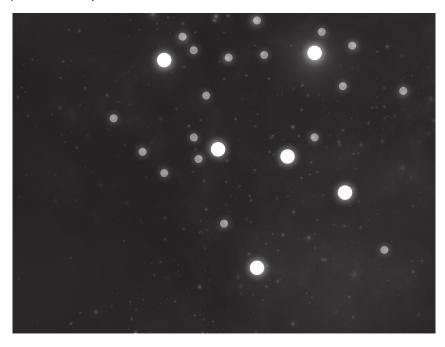


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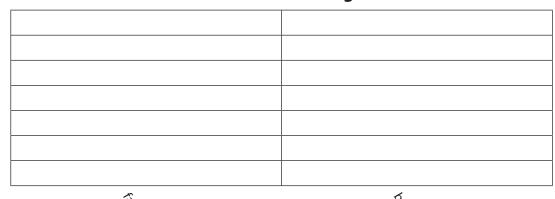
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