

UNIT OVERVIEW

Students are engaged in 7 high-interest lessons that include a teaching PowerPoint with vivid, real-world photographs. Students identify different landforms and bodies of water. They compare features of landforms and identify the processes by which they are formed.

Each lesson is followed by an investigation or lab. Through the investigations, students explore fast and slow changes to the Earth. They demonstrate science and engineering practices by developing and using models and simulations to explain how weathering, deposition, and erosion change the Earth's surface.

Throughout the unit, students compare solutions designed to slow or prevent wind and water from changing the shape of the land. Students apply science practices such asking questions, making observations, planning and carrying out investigations, and analyzing and interpreting data. Students are also asked to evaluate and communicate information.

Students design solutions to solve problems like coastal erosion and flooding. They collaborate with classmates and design ways to protect crop fields from wind erosion, coastlines from weathering and water erosion, and towns from landslides and flooding. They use the engineering practice of comparing solutions to analyze the best way to solve a problem.

As students carry out their investigations, they collect and analyze data. In some lessons, students build models, draw and label diagrams, and make maps. They use tools to measure distances between land features and bodies of water on a map. They use mathematical computational thinking as they convert distances using map scales.

Students view videos on each lesson topic. They engage in Talk About It partner discussions after each lesson, and Write About It response activities in their science journals.

Key science vocabulary is introduced in each lesson. Students use science content in center activities to practice cause & effect, sorting and classifying, sequencing events, and solving science related word problems.

Students are assessed after each lesson with Quick Check exit tickets in two differentiated formats. A final assessment that includes differentiated page options is given upon completion of the unit.

Additional reference materials, including posters, picture cards, and objectives and essential questions cards offer lesson support for students throughout the unit.

TEACHING POWERPOINT

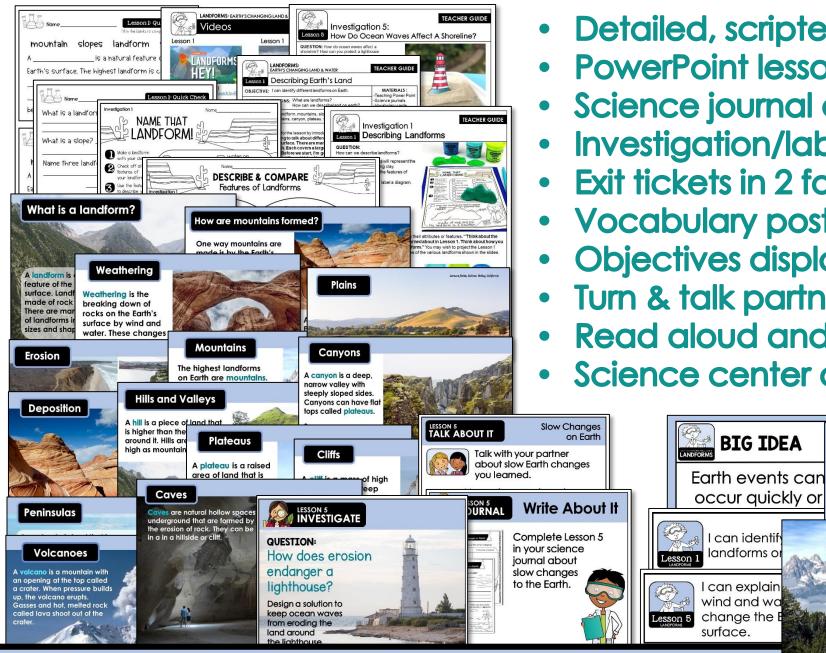




ENGAGING, CONTENT-RICH LESSONS:

- Describing Earth's Land
- Exploring Earth's Water
- Mapping Land and Water
- Fast Changes on Earth
- Slow Changes on Earth
- People Change the Earth
- Protecting Earth's Land and Water

EACH LESSON INCLUDES:



- Detailed, scripted lesson plan
- PowerPoint lesson
- Science journal activity
- Investigation/lab experiment
- Exit tickets in 2 formats
- Vocabulary posters
- **Objectives display cards**
- Turn & talk partner questions

ESSENTIAL

What can cause

land to change?

LANDFORMS Earth's Changing Land & Wate

LANDFORMS QUESTION

- Read aloud and videos
- Science center activity



Aligned to **Next Generation** Science Standards. TEKS, and **Common Core** State Standards for 2nd Grade

STANDARDS-ALIGNED



TEACHER GUIDE

- Scripted lesson plans
- Lesson objectives
- Performance tasks
- Teacher's notes
- Management tips
- Lab procedures
 Extension activities
 - Assessments



DETAILED LESSON PLANS

RESPONSE JOURNAL ACTIVITIES INCLUDE:

- Applying
 Vocabulary
- Short written response

Where doe

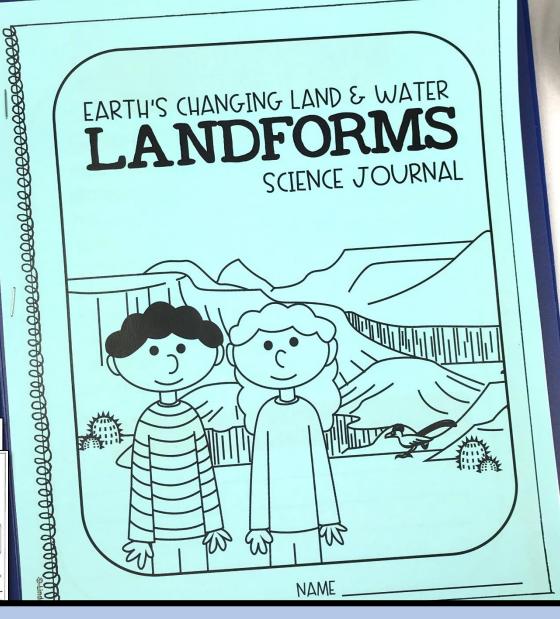
Fast Changes on Ear

EARTH'S CHANGING LAND & WATER

SCIENCE JOURNA

Lesson 5

Writing to explain



LESSON RESPONSE JOURNAL

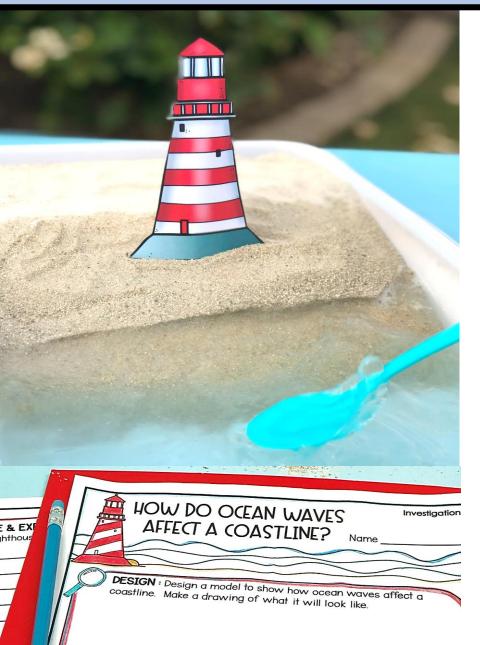
Lesson 1 Describing Landfor

7 HIGH-ENGAGEMENT LESSONS





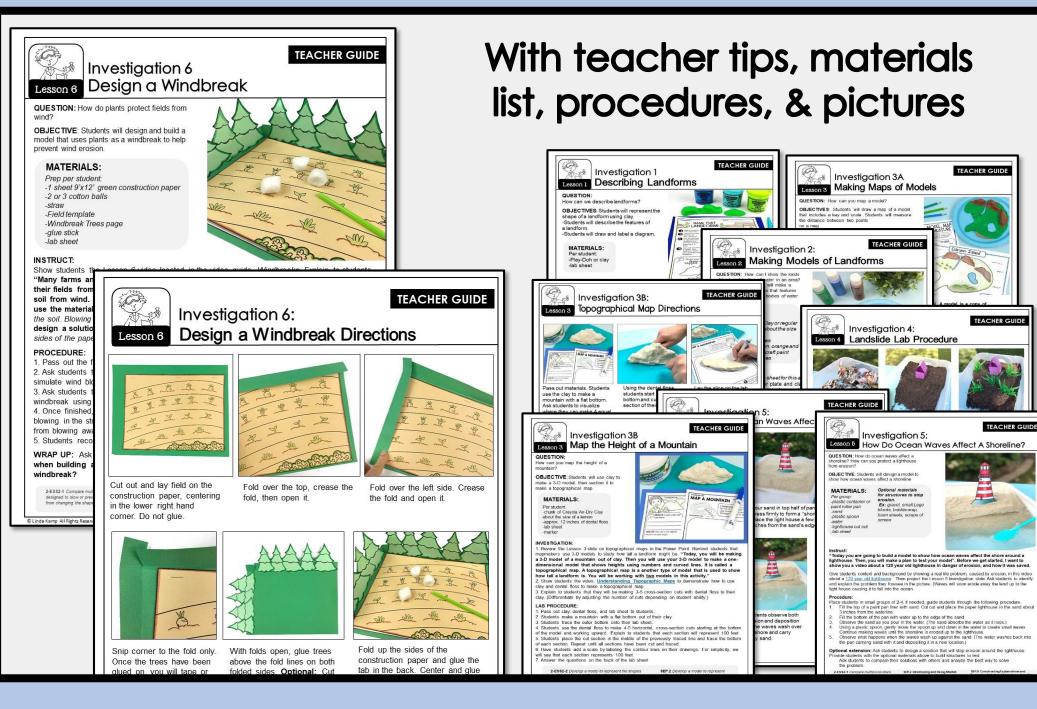
7 HANDS-ON INVESTIGATIONS



Throughout the unit students explore:

- Features of landforms
 & bodies of water
- Make models of landforms
- Use maps and scales
- Use models to explain erosion and deposition
- Simulate a landslide
- Design a solution to wind erosion
- Make a topographic map of a mountain

STEP-BY-STEP GUIDES



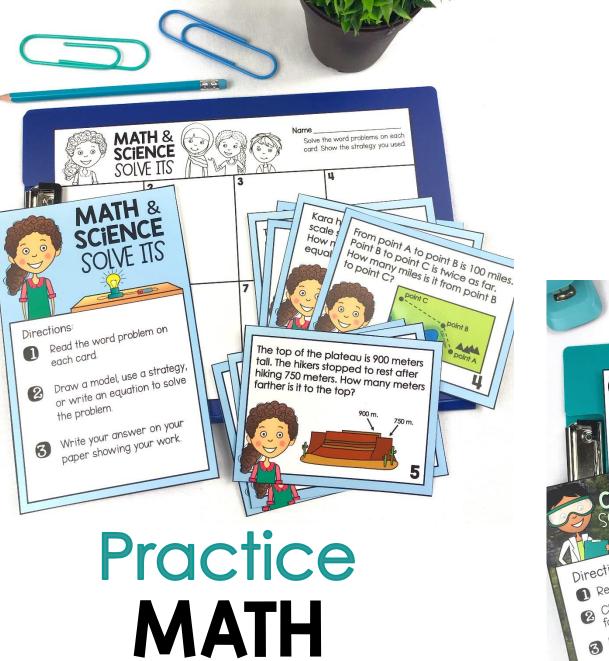
LITERACY-BASED SCIENCE CENTERS



Integrate science in your reading centers

16

1. slow



SKiLLS

Reinforce SCiENCE CONTENT



Centers included in color and black & white

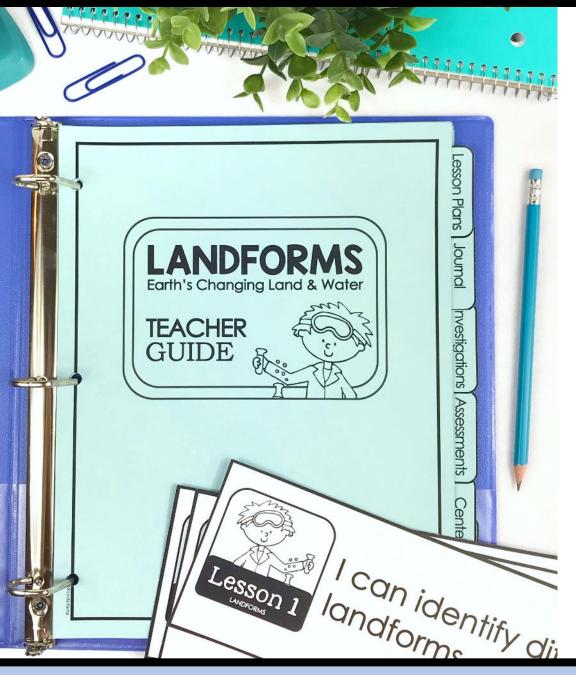
LESSON SUPPORT





Full Page Vocabulary Posters

UNIT PLANNING BINDER



Organize your unit in a handy planning binder

Binder includes:

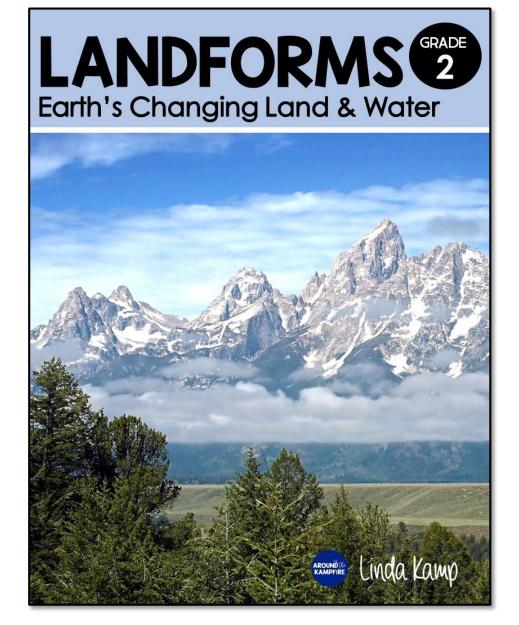
- cover & spines
- section dividers
- divider tabs

PLAN, TEACH & ASSESS an in-depth and effective unit

Science for Second Grade



Build a science foundation



STUDENTS GAIN UNDERSTANDING OF:

- Landforms & bodies of water
- Earth's processes
- Stability and change
- Causes and effects of weathering, erosion & deposition
- Types of maps
- Science & engineering practices
- Building & testing models
- Collecting & analyzing data
- Designing solutions



GOOGLE SLIDE LESSONS



7 LISTEN & LEARN LESSONS

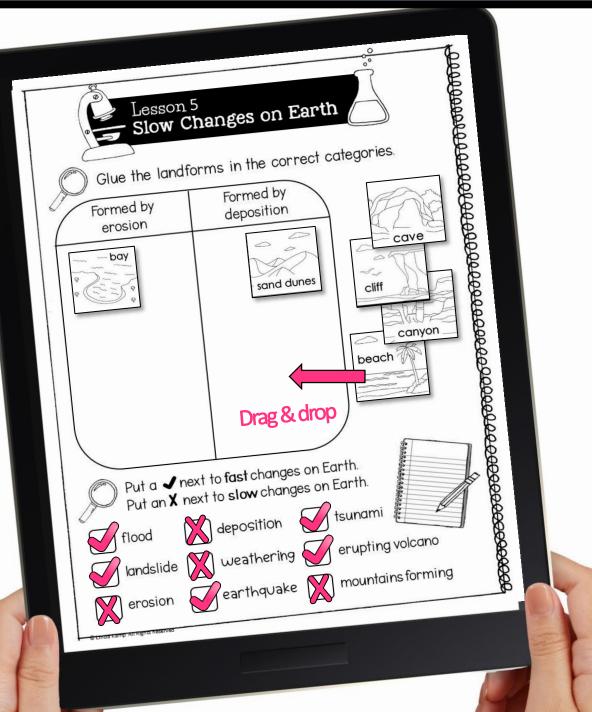
Narrated slides enable independent learning

- Describing Earth's Land
- Exploring Earth's Water
- Mapping Earth's Surface
- Fast Changes on Earth
- Slow Changes on Earth
- People Change the Earth
- Protecting Earth's Land and Water

LESSON RESPONSE ACTIVITIES

Interactive journal response pages on Google Slides™ for each lesson





GOOGLE SLIDE CENTER GAMES

Reinforce SCiENCE CONTENT

Practice MATH & LITERACY SKiLLS

The top of the plateau is

900 meters tall. The hikers stopped to rest after hiking 750 meters.

How many meters

Practice games with

moveable pieces

farther is it to the top?

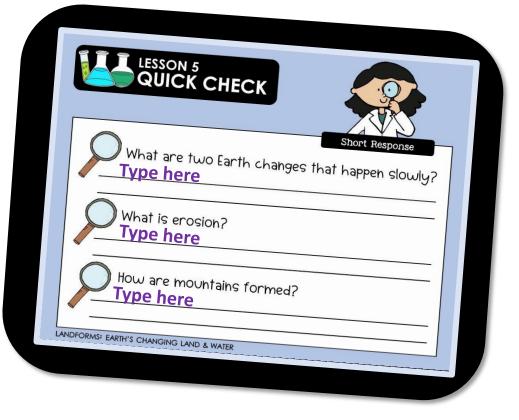




ASSESSMENTS MADE EASY

TYPE YOUR ANSWER Short response quizzes

Ĩ	LESSON 5 QUICK CHECK Fill in the Blank
	Itrees Wind erosion Drag the words to complete the sentences. Some Earth changes happen slowly . Over time, ocean waves can cause of coastlines. can cause the weathering of rocks and mountains. Planting is one way to help stop erosion.
	LANDFORMS' EARTH'S CHANGING LAND & WATER



DRAG & DROP Fill in the blank quizzes

Differentiated quizzes & unit test included



TEACH FROM ANYWHERE!

Easily transition between CLASSROOM and DISTANCE LEARNING

