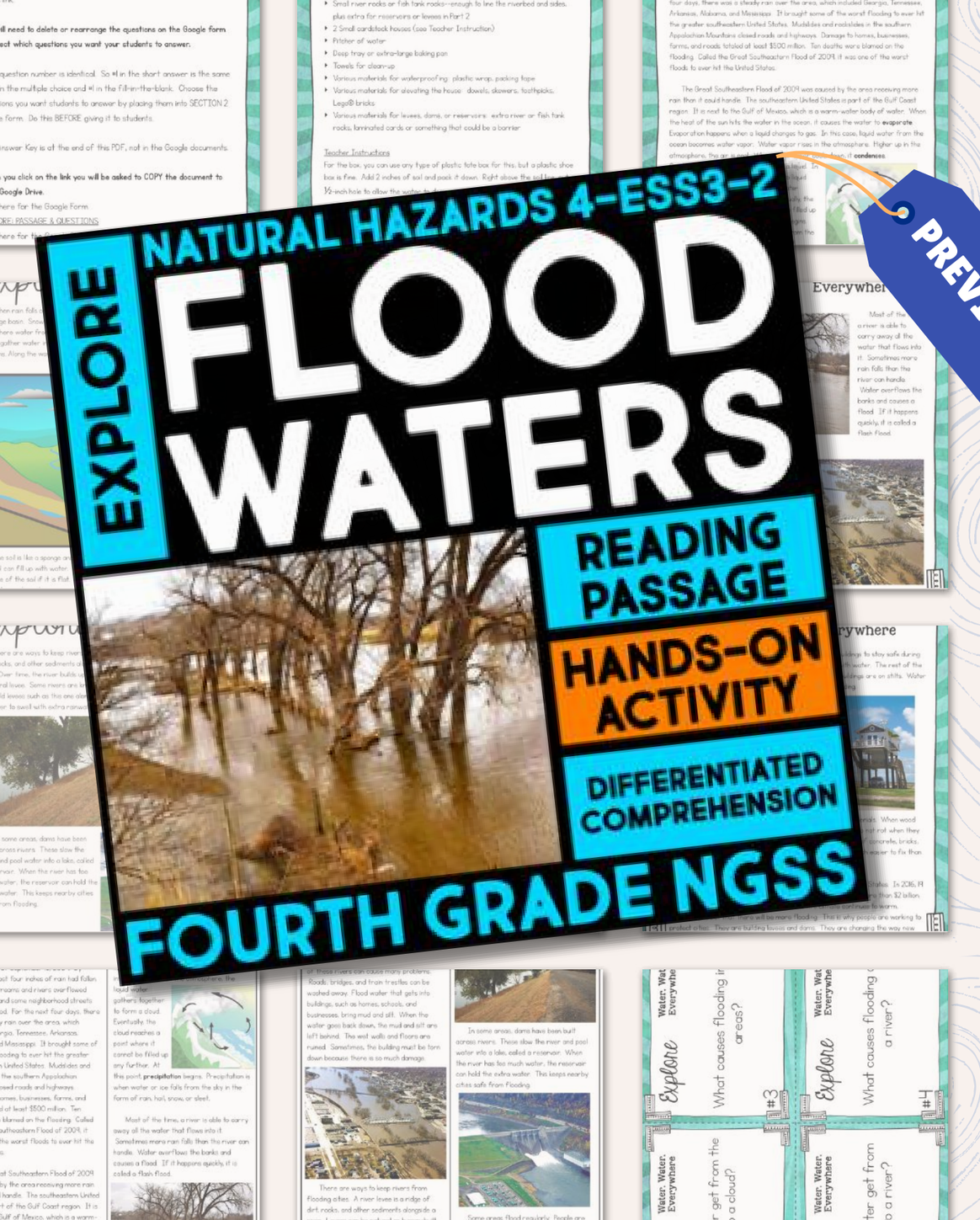


Make a Splash with Science!

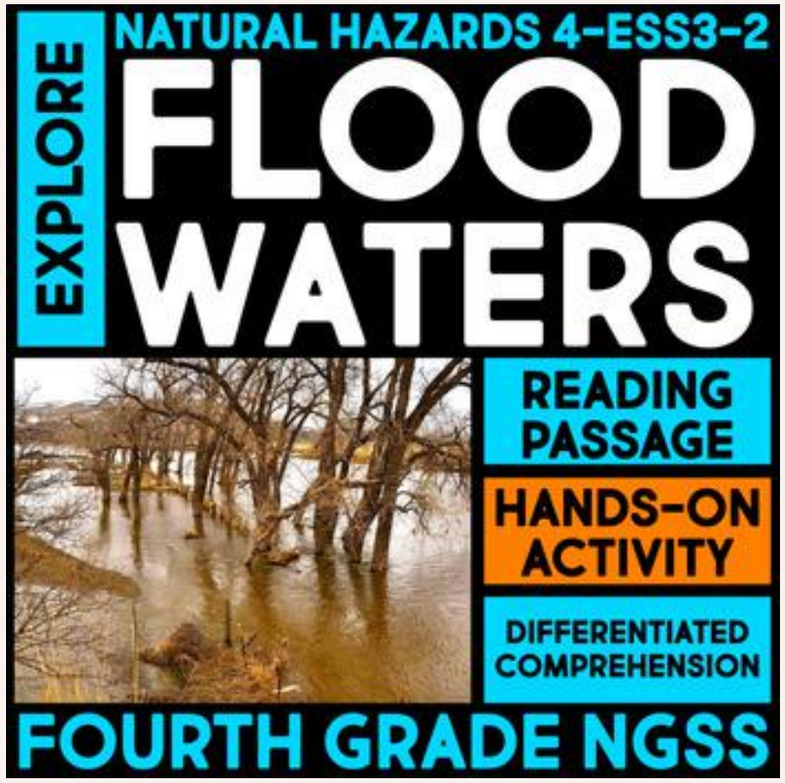
4TH GRADE

EXPLORE FLOOD WATERS SEVERE WEATHER PROJECT WORKSHEET

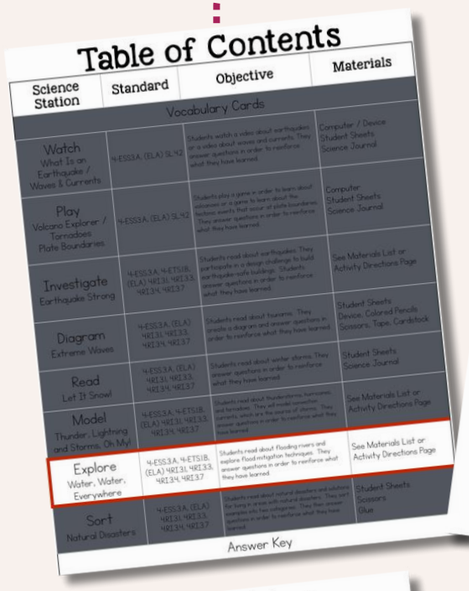
Water Erosion 4th Grade Science

KEEP SCROLLING TO SEE WHAT'S INSIDE!

ACTIVITY OVERVIEW



- Students read a passage about Water, Water. Everywhere.
- Students explore the flood water in a hands-on activity.
- Then lastly they will answer questions based on their exploration activity.


Table of Contents

Science Station	Standard	Objective	Materials
Vocabulary Cards			
Watch What Is an Earthquake / Waves & Currents	4-ESS3-A, (ELA) SL.4.2	Students watch a video about earthquakes or a video about waves and currents. They answer questions in order to reinforce what they have learned.	Computer / Device Student Sheets Science Journal
Play Volcano Explorer / Tornadoes Plate Boundaries	4-ESS3-A, (ELA) SL.4.5	Students play a game in order to learn about the volcanoes or a game to learn about the various events that occur at plate boundaries. They answer questions in order to reinforce what they have learned.	Computer Student Sheets Science Journal
Investigate Earthquake Strong	4-ESS3-A, 4-ETS1B, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.4, 4.RI.3.7	Students read about earthquakes. They put footprints in a design challenge to build earthquake-safe buildings. Students answer questions in order to reinforce what they have learned.	See Materials List or Activity Directions Page
Diagram Extreme Waves	4-ESS3-A, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.4, 4.RI.3.7	Students read about tsunamis. They practice a diagram and answer questions in order to reinforce what they have learned.	Student Sheets Devices, Colored Pencils Scissors, Tape, Cardstock
Read Let It Snow!	4-ESS3-A, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.4, 4.RI.3.7	Students read about winter storms. They answer questions in order to reinforce what they have learned.	Student Sheets Science Journal
Model Thunder, Lightning and Storms, Oh My!	4-ESS3-A, 4-ETS1B, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.7	Students read about thunderstorms, hurricanes, and tornadoes. They will model how these elements are the source of storms. They answer questions in order to reinforce what they have learned.	See Materials List or Activity Directions Page
Explore Water, Water, Everywhere	4-ESS3-A, 4-ETS1B, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.4, 4.RI.3.7	Students read about flooding rivers and explore flood mitigation techniques. They answer questions in order to reinforce what they have learned.	See Materials List or Activity Directions Page
Sort Natural Disasters	4-ESS3-A, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.4, 4.RI.3.7	Students read about natural disasters and solutions for living in areas with natural disasters. They sort disasters into two categories. They then answer questions in order to reinforce what they have learned.	Student Sheets Scissors Glue

Answer Key


Science Stations Overview

Watch a Video
At this station, students will watch a video relevant to the topic and answer questions. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Play a Video Game
Students play an online video game and answer questions about the experience. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Investigate
Students use materials to investigate the science topic by following directions and recording results. Students answer questions about the investigation.

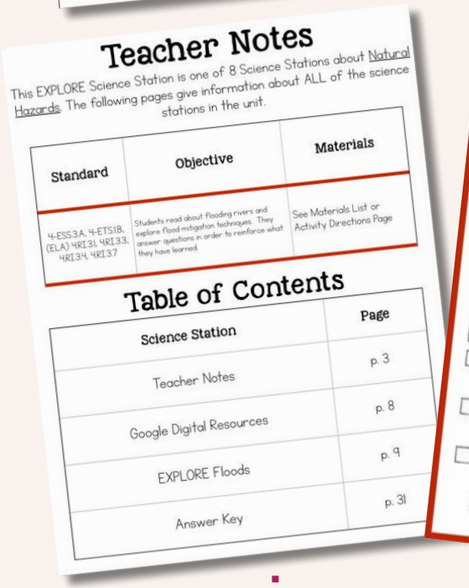
Draw a Diagram
Students draw and label a diagram specific to certain requirements. Students then explain how their diagram meets the requirements.

Read a Passage
Students read a short passage about the topic and answer questions about the information in the passage. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Create a Model
Students use materials to illustrate the science concept and answer questions. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Explore
Students create a sample and manipulate it using the new science concepts they have learned. Students answer question based on the effects.

Sort
Students sort cards into groups or put them in a specific order. Students record the sort and then describe their reasoning.

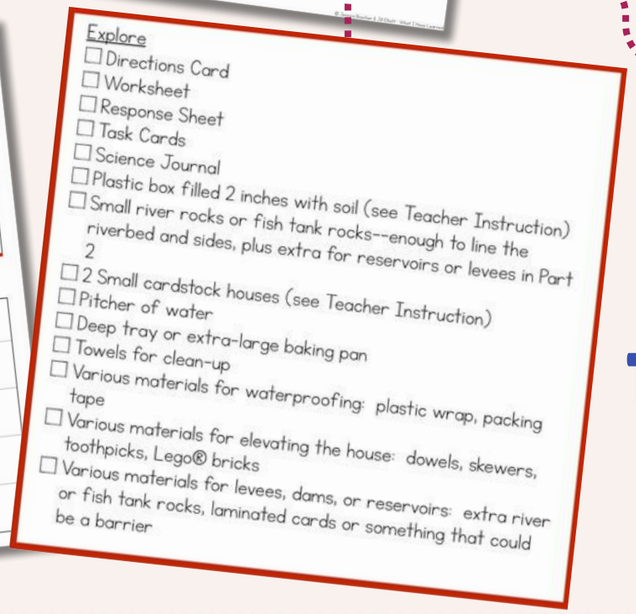

Teacher Notes

This EXPLORE Science Station is one of 8 Science Stations about Natural Hazards. The following pages give information about ALL of the science stations in the unit.

Standard	Objective	Materials
4-ESS3-A, 4-ETS1B, (ELA) 4.RI.3.1, 4.RI.3.3, 4.RI.3.4, 4.RI.3.7	Students read about flooding rivers and explore flood mitigation techniques. They answer questions in order to reinforce what they have learned.	See Materials List or Activity Directions Page

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Science Station	Page
Teacher Notes	p. 3
Google Digital Resources	p. 8
EXPLORE Floods	p. 9
Answer Key	p. 31


Explore

- ☐ Directions Card
- ☐ Worksheet
- ☐ Response Sheet
- ☐ Task Cards
- ☐ Science Journal
- ☐ Plastic box filled 2 inches with soil (see Teacher Instruction)
- ☐ Small river rocks or fish tank rocks--enough to line the riverbed and sides, plus extra for reservoirs or levees in Part 2
- ☐ 2 Small cardstock houses (see Teacher Instruction)
- ☐ Pitcher of water
- ☐ Deep tray or extra-large baking pan
- ☐ Towels for clean-up
- ☐ Various materials for waterproofing: plastic wrap, packing tape
- ☐ Various materials for elevating the house: dowels, skewers, toothpicks, Lego® bricks
- ☐ Various materials for levees, dams, or reservoirs: extra river or fish tank rocks, laminated cards or something that could be a barrier

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Science Station Overview

Materials Checklist

Table of Contents / Teacher's Notes

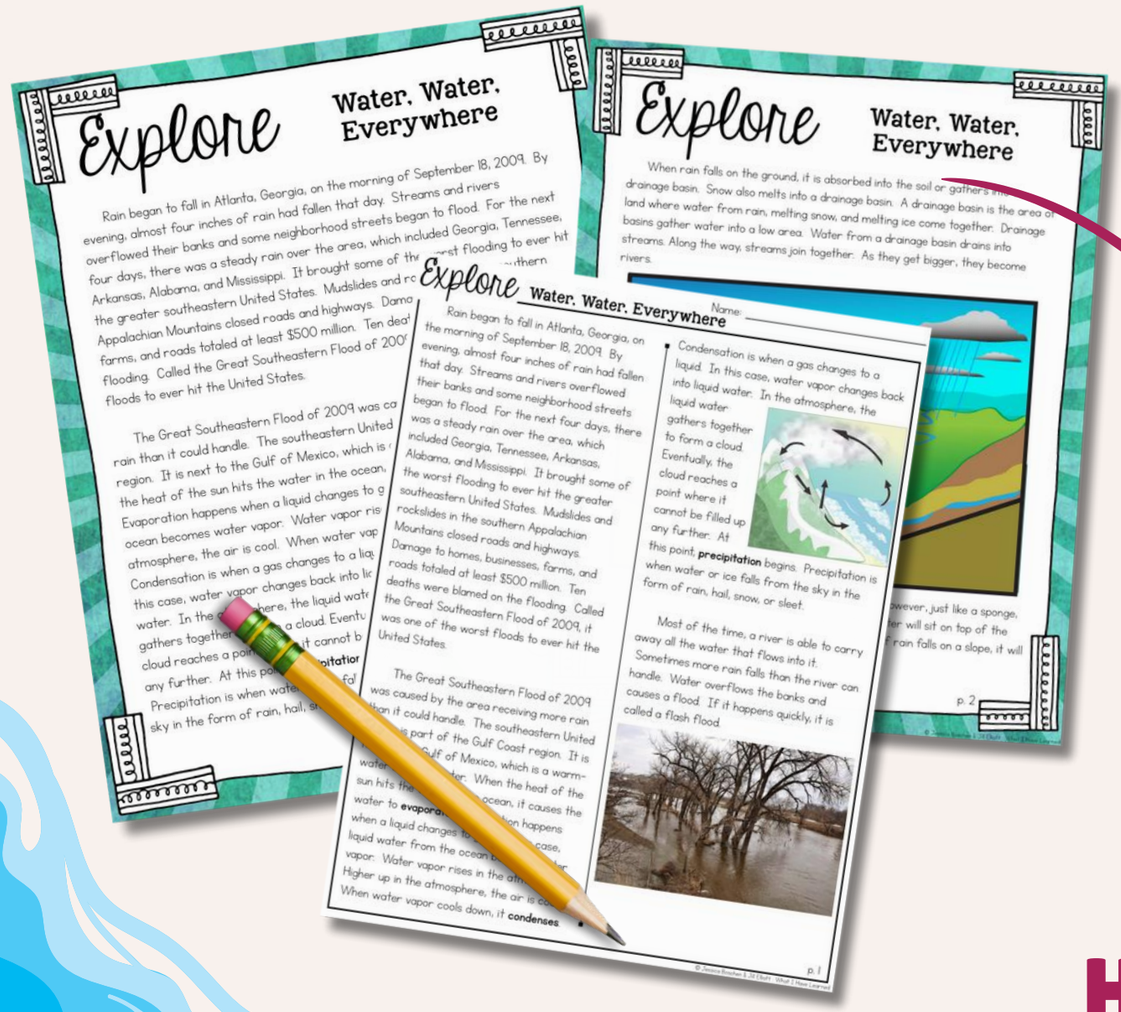
WHAT'S INCLUDED

EXPLORE SCIENCE STATION

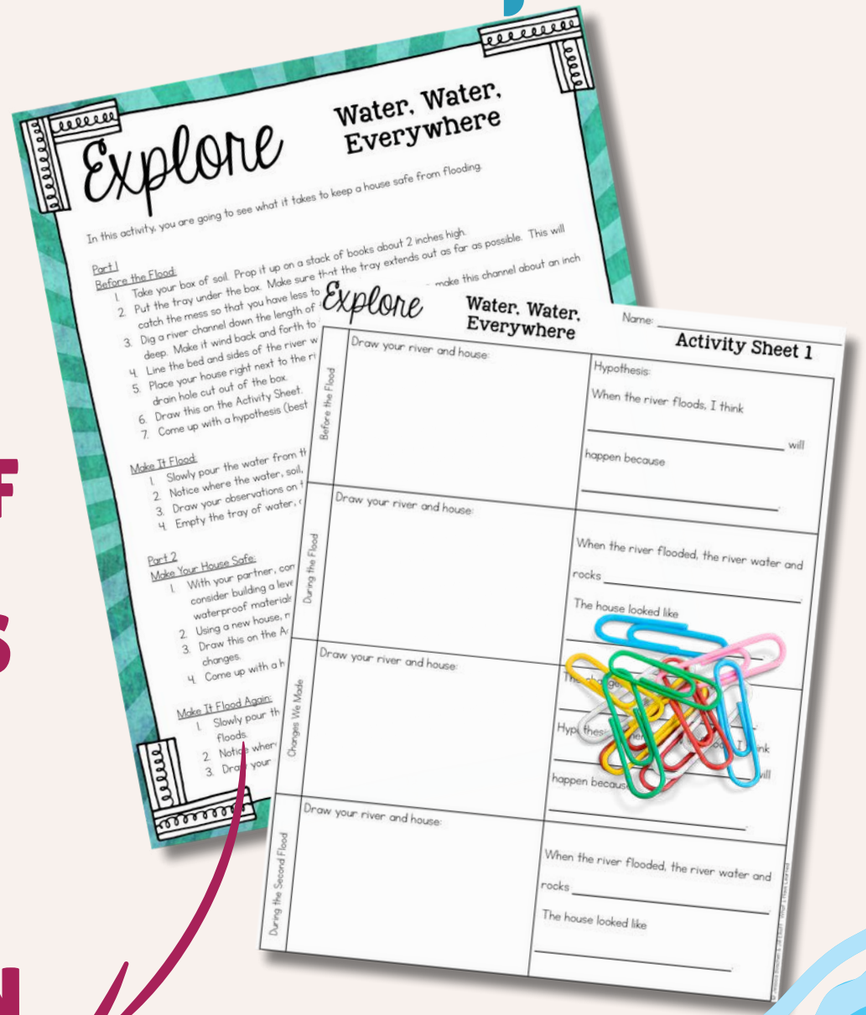
- Teacher Notes
- Student Text in two formats
- Student Instructions
- Activity Sheets
- Differentiated Questions
- Answer Key
- Google Form™
- Google Slides™



READING PASSAGE & ACTIVITIES

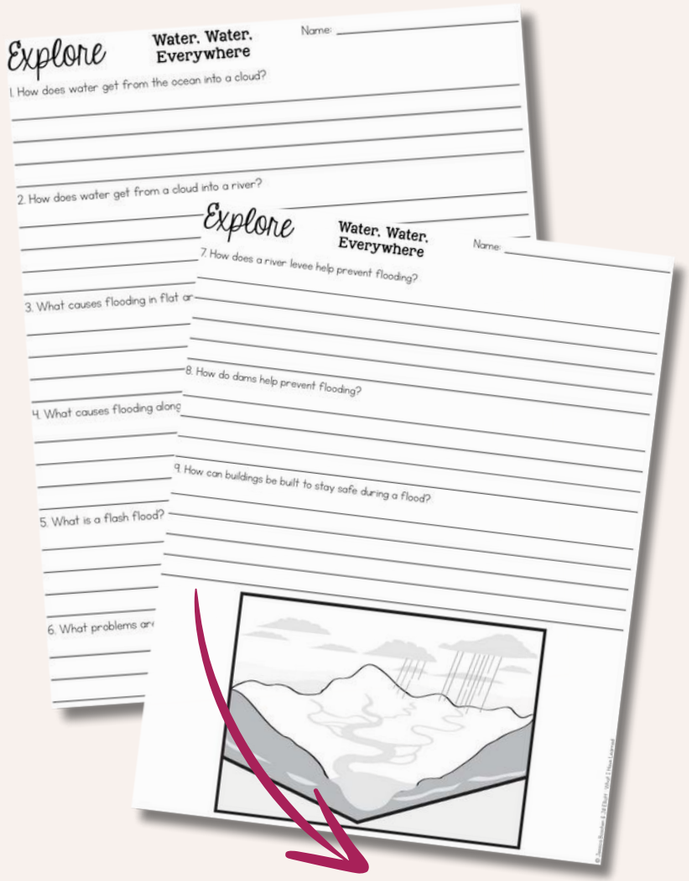


2 TYPES OF READING PASSAGES

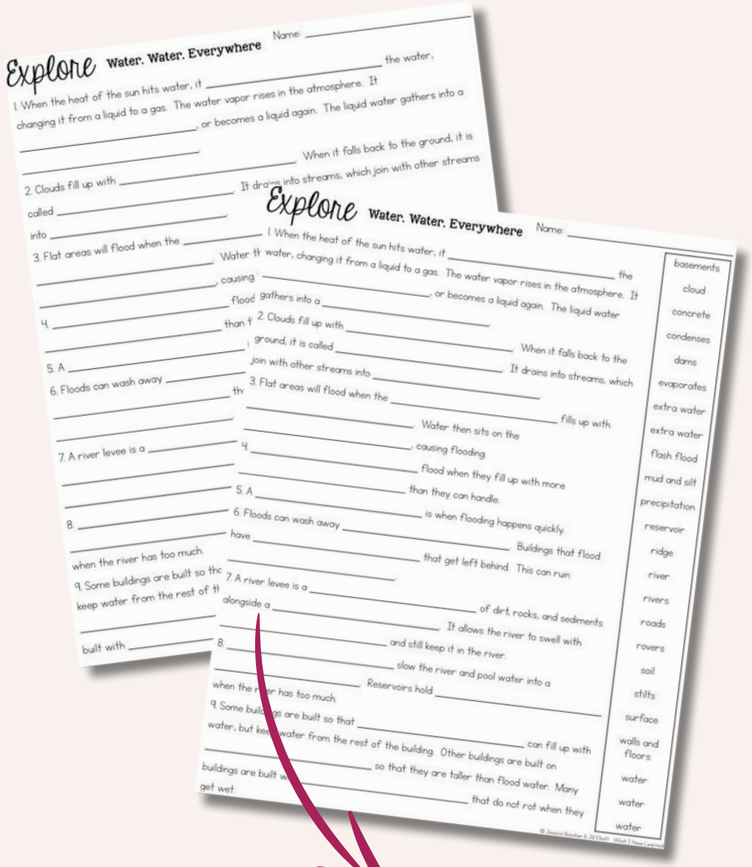


HANDS-ON ACTIVITY

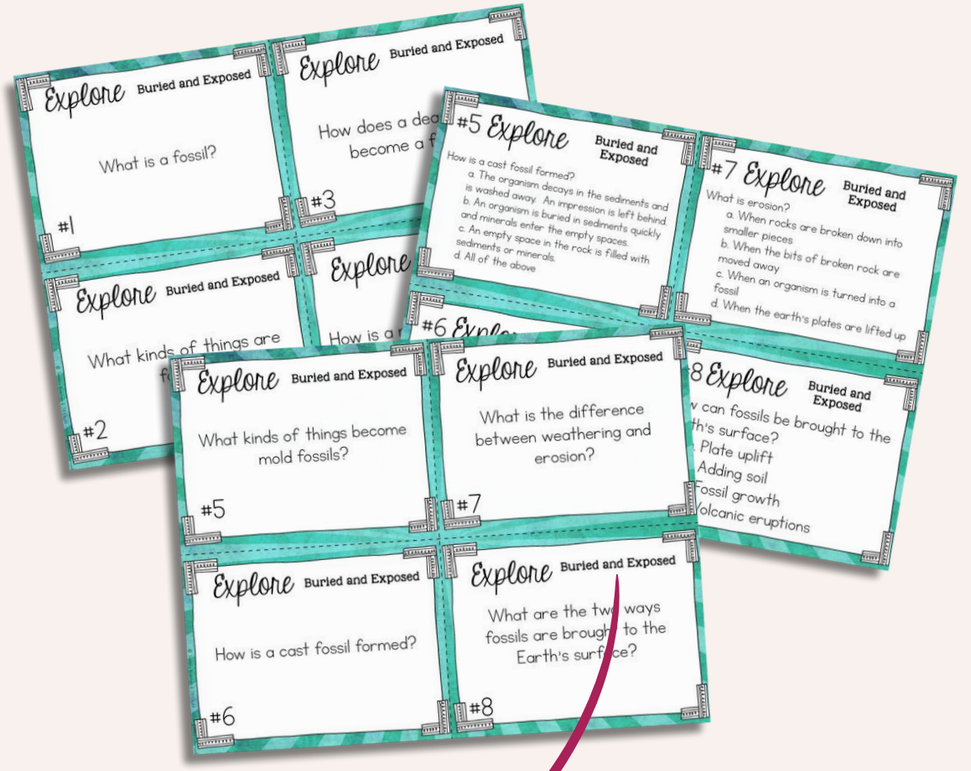
DIFFERENTIATED QUESTIONS



SHORT ANSWER

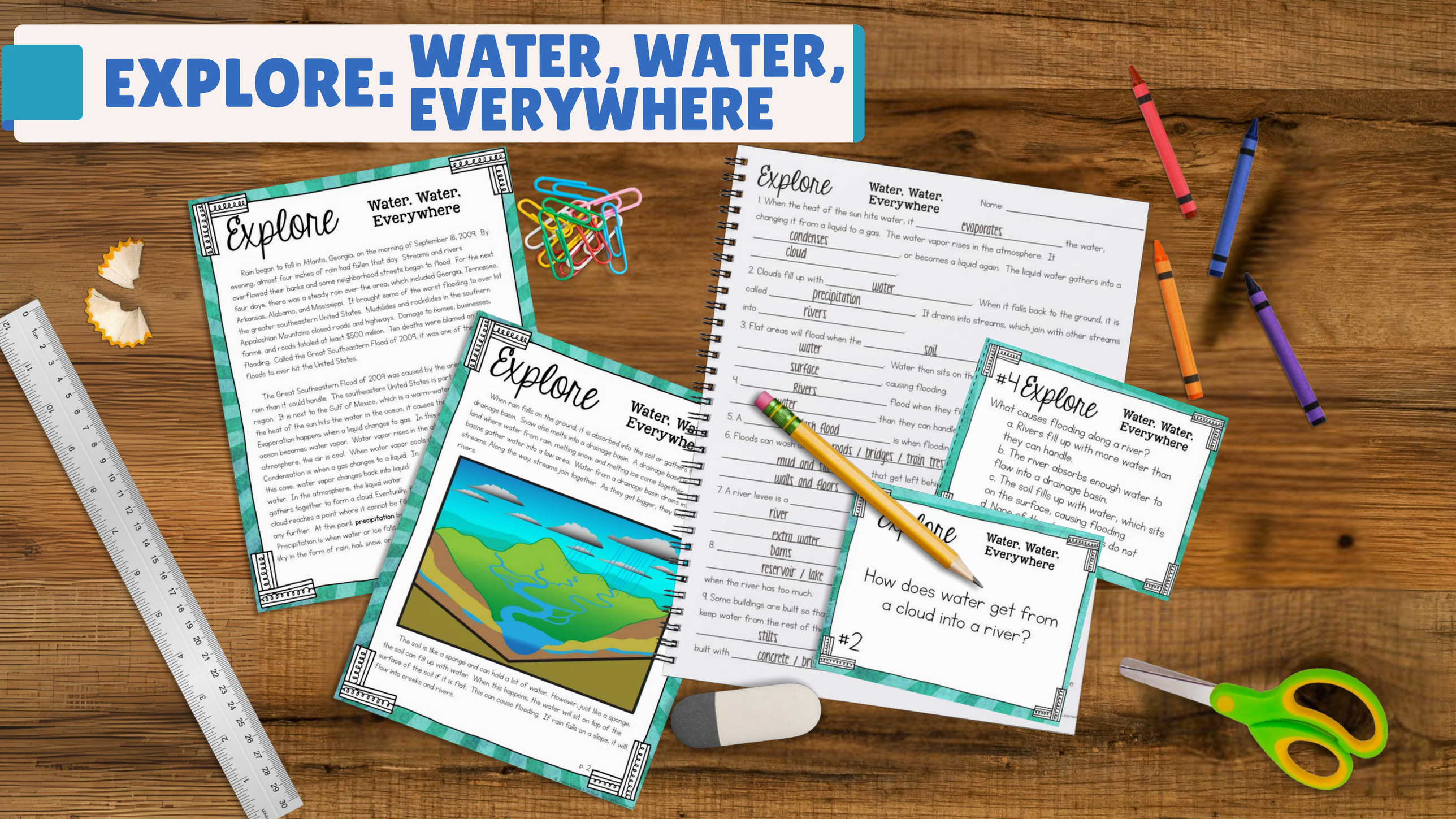


FILL-IN-THE BLANK

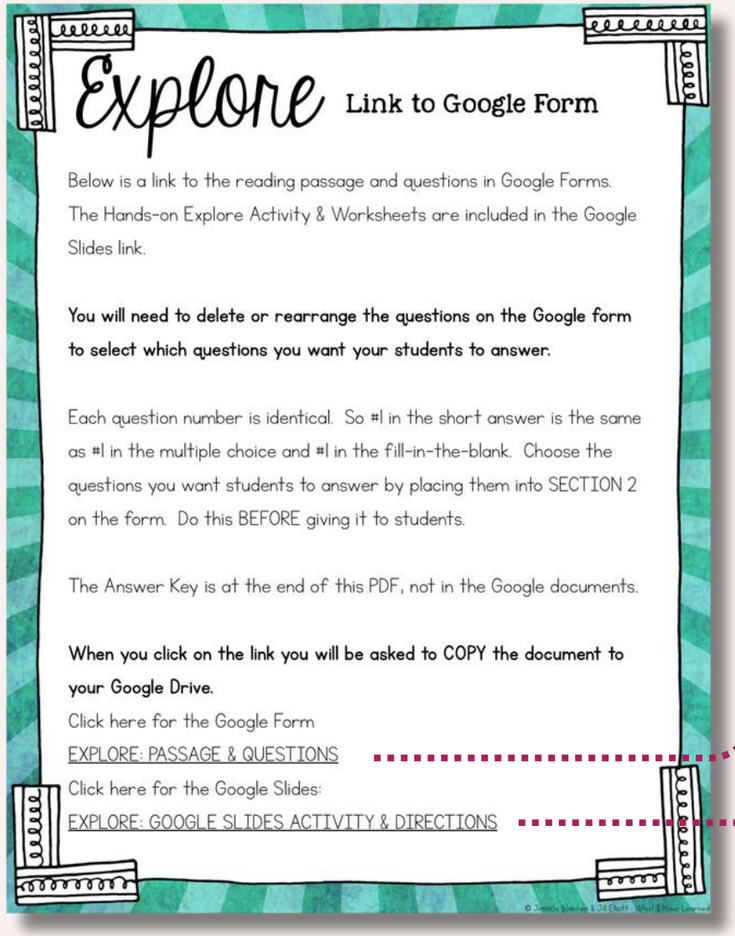


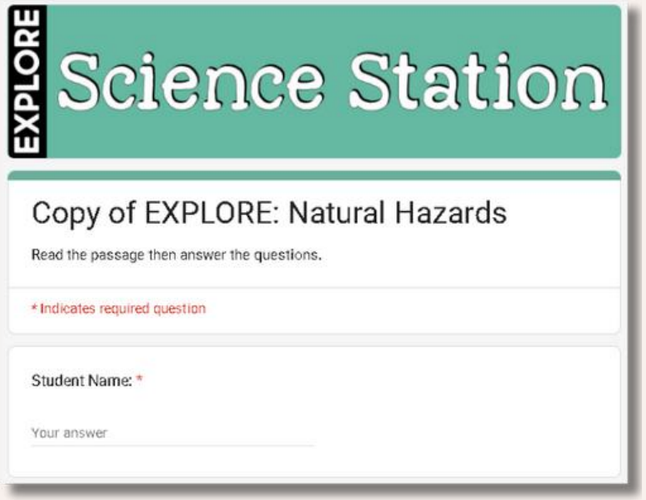
TASK CARDS:
SHORT ANSWER & MULTIPLE CHOICE

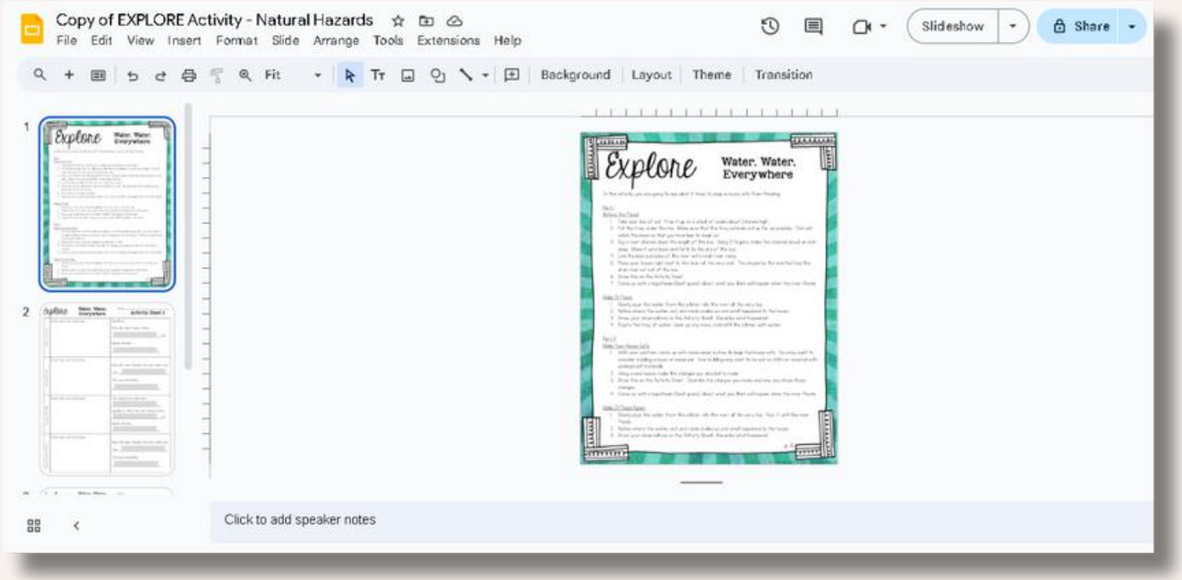
EXPLORE: WATER, WATER, EVERYWHERE



DIGITAL VERSIONS







DIGITAL VERSIONS

- ✔ Google Sheet with Activity & Directions
- ✔ Google Form with Reading & Questions

Answer keys provided

YOU WILL LOVE THIS BECAUSE



Encourages Hands-On Learning

Students actively engage with science concepts by simulating flood conditions and testing solutions, making abstract ideas more tangible and meaningful.



Aligned with NGSS

These lesson plans aren't just random; they're laser-focused on Next Generation Science Standards. No more curriculum guesswork!



Supports Critical Thinking

Through predictions, observations, and reflections, students analyze flood causes and effects, deepening their understanding of environmental science.

TEACHERS LOVE IT!

Using this resource to teach science and hands on activities. Our current science curriculum and materials do not provide anything engaging as this, thanks!

Naomy V.



good resource, thank you!

Special Ed1



My passion is making learning accessible to all students.
I love scaffolding learning, breaking down the concepts and building them up so that students can see the connections.
I love figuring out the small components that build up to the big ideas and helping students see it all.



teach MATH | teach SCIENCE | teach READING | teach WRITING

What I have LEARNED