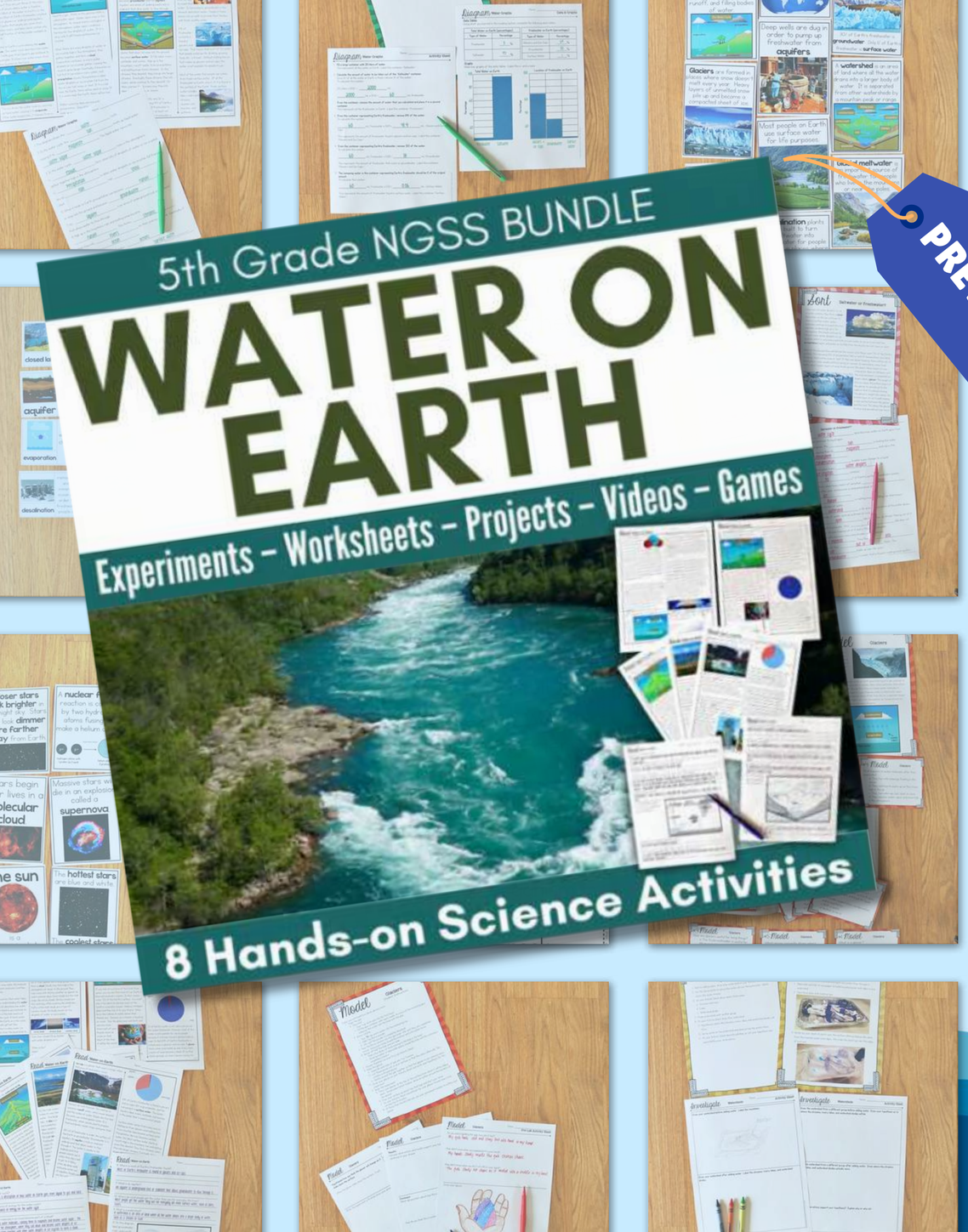


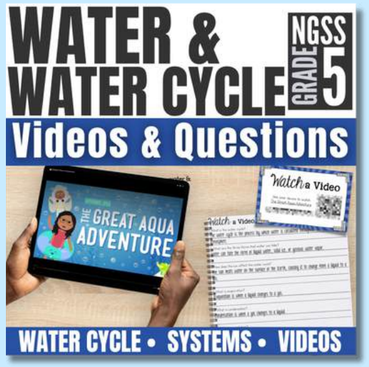

5TH GRADE

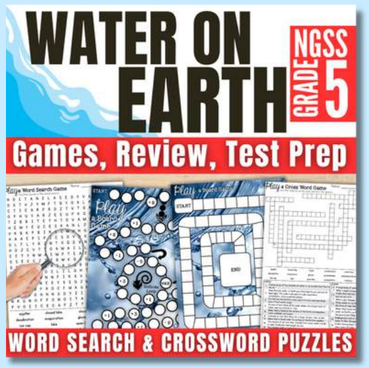
## Dive Into Earth's Water Systems Through Science Stations!

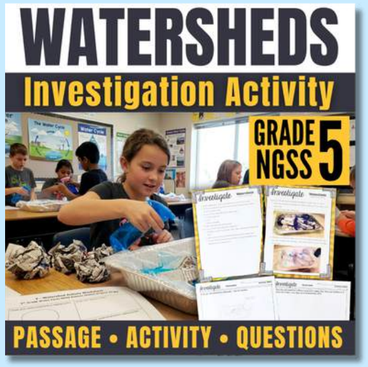
# WATER ON EARTH BUNDLE

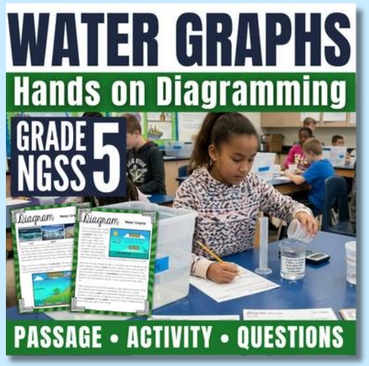
KEEP SCROLLING TO SEE WHAT'S INSIDE!

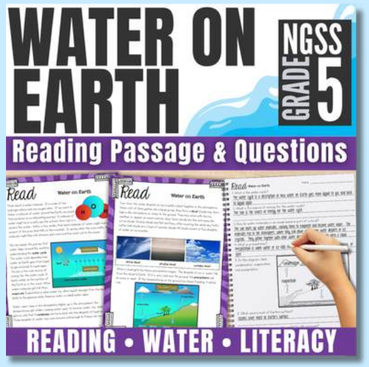
# WHAT'S INCLUDED IN THE BUNDLE?

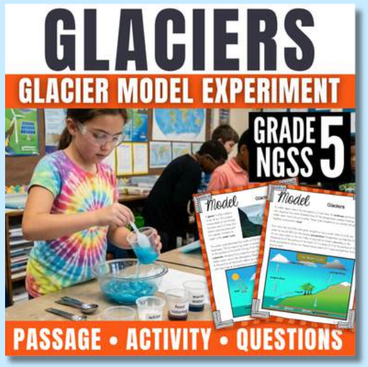


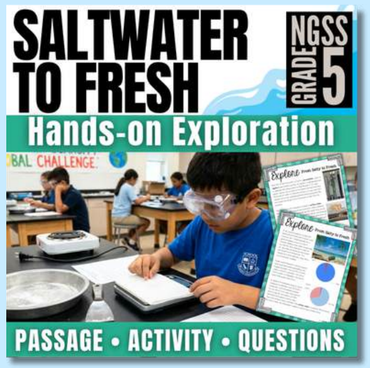







- 8 Science Stations aligned with the NGSS for 5th grade
- 6 Reading passages
- Hands-on activities
- Differentiated comprehension questions
- Digital Videos & Video Games
- Digital Google Slides & Forms

# 6 READING PASSAGE

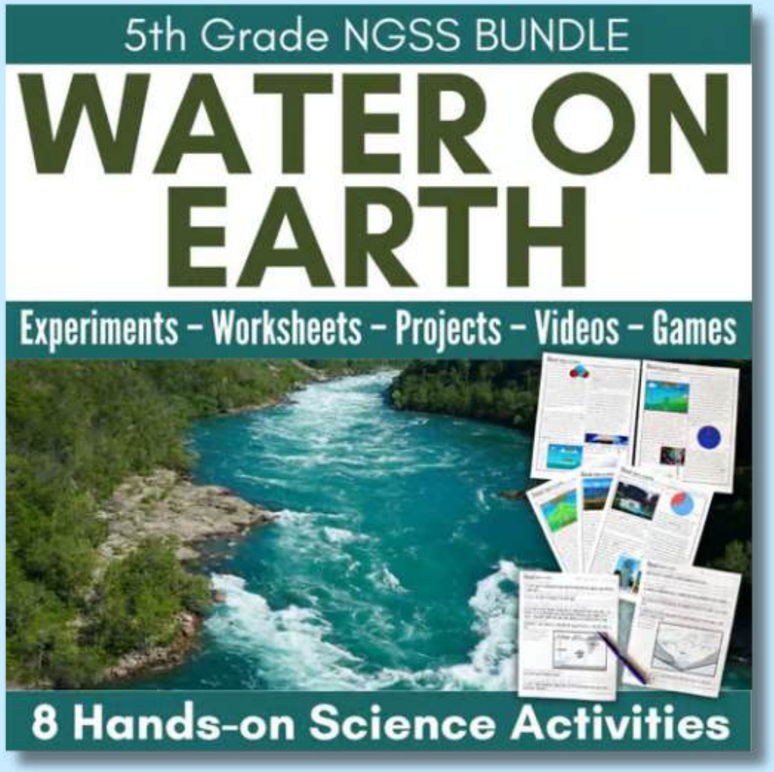



**6 Reading Passages that provide all scientific background knowledge for each station**

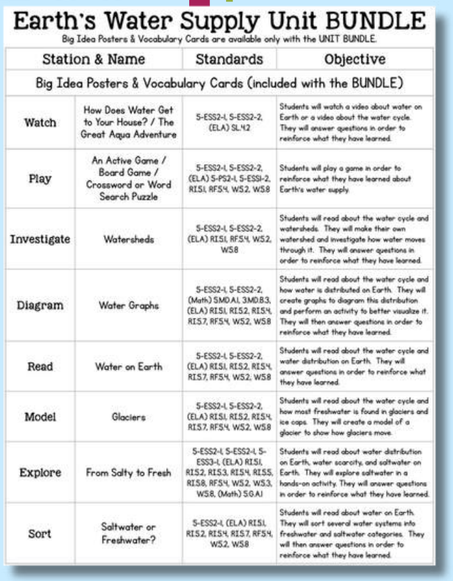
**Available in two formats + Digital**

**Includes pictures and visuals**

# PAGE OVERVIEW




ADD TO CART



## Earth's Water Supply Unit BUNDLE

Big Idea Posters & Vocabulary Cards are available only with the UNIT BUNDLE.

| Station & Name | | Standards | Objective |
|---|---|---|---|
| Big Idea Posters & Vocabulary Cards (included with the BUNDLE) | | | |
| Watch | How Does Water Get to Your House? / The Great Aqua Adventure | 5-ESS2-1, 5-ESS2-2, (ELA) SL.4.2 | Students will watch a video about water on Earth or a video about the water cycle. They will answer questions in order to reinforce what they have learned. |
| Play | An Active Game / Board Game / Crossword or Word Search Puzzle | 5-ESS2-1, 5-ESS2-2, (ELA) 5-PS2-1, 5-ESS1-2, RI.5.1, RF.5.4, WS.2, WS.8 | Students will play a game in order to reinforce what they have learned about Earth's water supply. |
| Investigate | Watersheds | 5-ESS2-1, 5-ESS2-2, (ELA) RI.5.1, RF.5.4, WS.2, WS.8 | Students will read about the water cycle and watersheds. They will make their own watershed and investigate how water moves through it. They will answer questions in order to reinforce what they have learned. |
| Diagram | Water Graphs | 5-ESS2-1, 5-ESS2-2, (Math) 5.MD.A.1, 3.MD.B.3, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, WS.2, WS.8 | Students will read about the water cycle and how water is distributed on Earth. They will create graphs to diagram this distribution and perform an activity to better visualize it. They will then answer questions in order to reinforce what they have learned. |
| Read | Water on Earth | 5-ESS2-1, 5-ESS2-2, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, WS.2, WS.8 | Students will read about the water cycle and water distribution on Earth. They will answer questions in order to reinforce what they have learned. |
| Model | Glaciers | 5-ESS2-1, 5-ESS2-2, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, WS.2, WS.8 | Students will read about the water cycle and how most freshwater is found in glaciers and ice caps. They will create a model of a glacier to show how glaciers move. |
| Explore | From Salty to Fresh | 5-ESS2-1, 5-ESS2-1, 5-ESS3-1, (ELA) RI.5.1, RI.5.2, RI.5.3, RI.5.4, RI.5.5, RI.5.8, RF.5.4, WS.2, WS.3, WS.8, (Math) 5.G.A.1 | Students will read about water distribution on Earth, water scarcity, and saltwater on Earth. They will explore saltwater in a hands-on activity. They will answer questions in order to reinforce what they have learned. |
| Sort | Saltwater or Freshwater? | 5-ESS2-1, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, WS.2, WS.8 | Students will read about water on Earth. They will sort several water systems into freshwater and saltwater categories. They will then answer questions in order to reinforce what they have learned. |



## Science Stations Overview

This is a general overview of all science stations in each UNIT BUNDLE.

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

**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 using the included worksheet with the questions or using the task cards and having students respond in their science journals.

**Play a Game**
Students play a game and answer questions about the experience. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

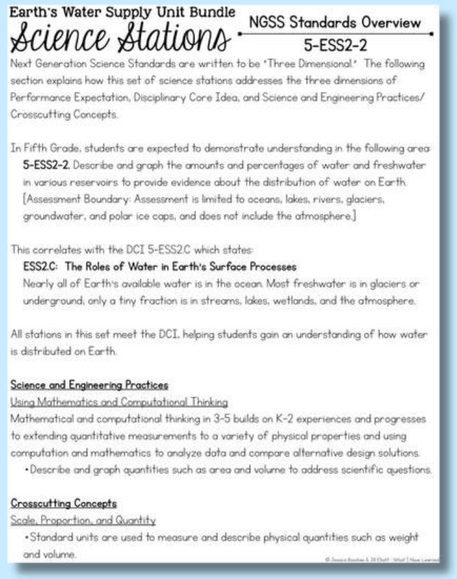
**Create a Model**
Students use materials to illustrate the science concept and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

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

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

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

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



Earth's Water Supply Unit Bundle

## Science Stations

NGSS Standards Overview
5-ESS2-2

Next Generation Science Standards are written to be "Three Dimensional." The following section explains how this set of science stations addresses the three dimensions of Performance Expectation, Disciplinary Core Idea, and Science and Engineering Practices/ Crosscutting Concepts.

In Fifth Grade, students are expected to demonstrate understanding in the following area:

**5-ESS2-2.** Describe and graph the amounts and percentages of water and freshwater in various reservoirs to provide evidence about the distribution of water on Earth. [Assessment Boundary: Assessment is limited to oceans, lakes, rivers, glaciers, groundwater, and polar ice caps, and does not include the atmosphere.]

This correlates with the DCI 5-ESS2.C which states:

**ESS2.C: The Roles of Water in Earth's Surface Processes**

Nearly all of Earth's available water is in the ocean. Most freshwater is in glaciers or underground, only a tiny fraction is in streams, lakes, wetlands, and the atmosphere.

All stations in this set meet the DCI, helping students gain an understanding of how water is distributed on Earth.

**Science and Engineering Practices**

Using Mathematics and Computational Thinking

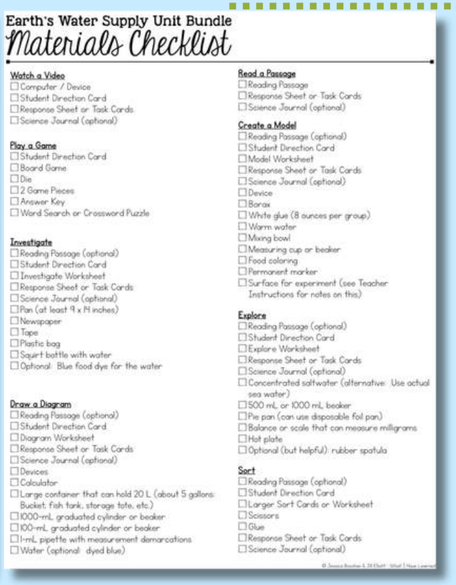
Mathematical and computational thinking in 3-5 builds on K-2 experiences and progresses to extending quantitative measurements to a variety of physical properties and using computation and mathematics to analyze data and compare alternative design solutions.

- Describe and graph quantities such as area and volume to address scientific questions.

**Crosscutting Concepts**

Scale, Proportion, and Quantity

- Standard units are used to measure and describe physical quantities such as weight and volume.



Earth's Water Supply Unit Bundle

## Materials Checklist

**Watch a Video**
- ☐ Computer / Device
- ☐ Student Direction Card
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

**Play a Game**
- ☐ Student Direction Card
- ☐ Board Game
- ☐ Die
- ☐ 2 Game Pieces
- ☐ Answer Key
- ☐ Word Search or Crossword Puzzle

**Investigate**
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Investigate Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Pan (at least 9 x 11 inches)
- ☐ Newspaper
- ☐ Tape
- ☐ Plastic bag
- ☐ Squirt bottle with water
- ☐ Optional: Blue food dye for the water

**Draw a Diagram**
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Diagram Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Devices
- ☐ Calculator
- ☐ Large container that can hold 20 L (about 5 gallons: Bucket, fish tank, storage tote, etc.)
- ☐ 1000-mL graduated cylinder or beaker
- ☐ 100-mL graduated cylinder or beaker
- ☐ 1-mL pipette with measurement demarcations
- ☐ Water (optional: dyed blue)

**Read a Passage**
- ☐ Reading Passage
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

**Create a Model**
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Model Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Device
- ☐ Borax
- ☐ White glue (8 ounces per group)
- ☐ Warm water
- ☐ Mixing bowl
- ☐ Measuring cup or beaker
- ☐ Food coloring
- ☐ Permanent marker
- ☐ Surface for experiment (see Teacher Instructions for notes on this)

**Explore**
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Explore Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Concentrated saltwater (alternative: Use actual sea water)
- ☐ 500 mL or 1000 mL beaker
- ☐ Pie pan (can use disposable foil pan)
- ☐ Balance or scale that can measure milligrams
- ☐ Hot plate
- ☐ Optional (but helpful): rubber spatula

**Sort**
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Larger Sort Cards or Worksheet
- ☐ Scissors
- ☐ Glue
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Table of Contents

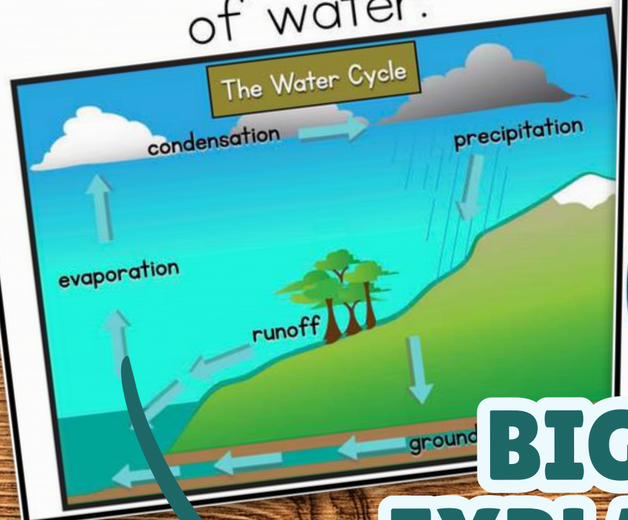
Science Station Overview

Materials Checklist

Science Stations

# BIG IDEA POSTERS

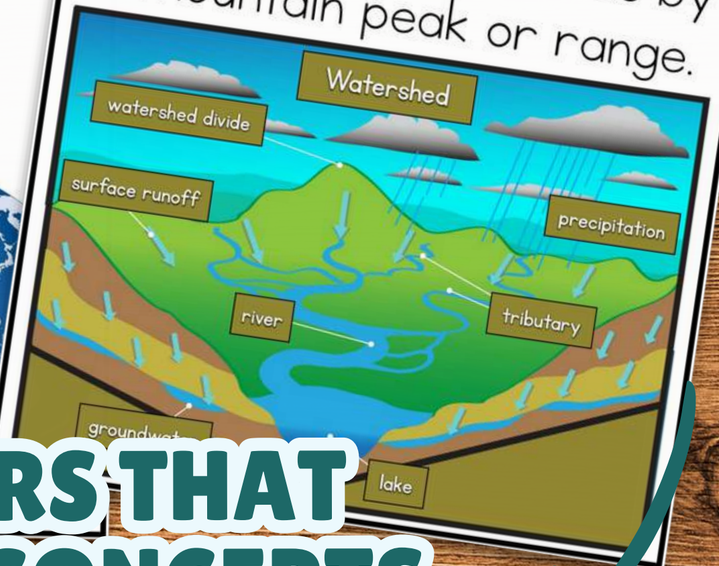
The **water cycle** describes how water moves around the Earth, causing precipitation and runoff, and filling bodies of water.




70% of the Earth is covered in **oceans**.



A **watershed** is an area of land where all the water drains into a larger body of water. It is separated from other watersheds by a mountain peak or range.




## BIG IDEA POSTERS THAT EXPLAIN THE KEY CONCEPTS



glacier

a slow-moving sheet of ice formed by many years of snow



vaporation

when a liquid changes to a gas



lake

a large body of water surrounded by land



surface water

water th
found
surface
Earth, including lakes, rivers, wetlands, and oceans

## VOCABULARY CARDS WITH PICTURE

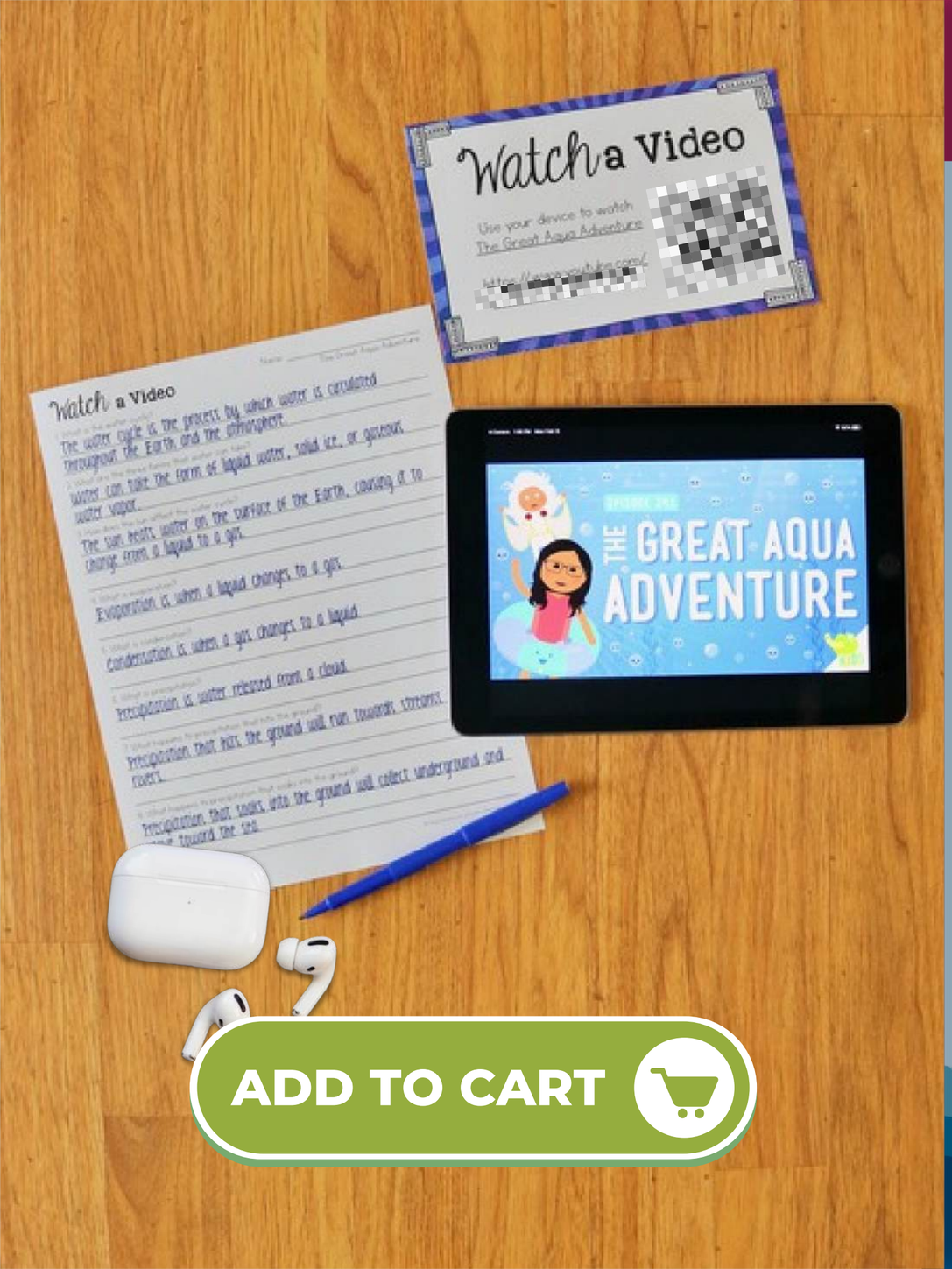
closed lake

a lake that only has rivers flowing into it, but not out of it

desalination

removal of salt and other minerals from ocean water in order to make freshwater that people can use

## VOCABULARY CARDS WITHOUT PICTURE




# WATCH STATION

**STUDENTS WATCH ENGAGING VIDEOS ABOUT EARTH'S WATER SUPPLY AND WATER DISTRIBUTION WHILE ANSWERING COMPREHENSION QUESTIONS.**

> “Was absolutely perfect for our science unit on water distribution!! Thank you!!”
>
> - Karen M.

# PLAY STATION

**STUDENTS REVIEW KEY VOCABULARY AND CONCEPTS THROUGH A BOARD GAME, CROSSWORD PUZZLE, AND WORD SEARCH.**

> Students loved this resource and found it to be very engaging!
> - Brandi R.






# INVESTIGATE STATION

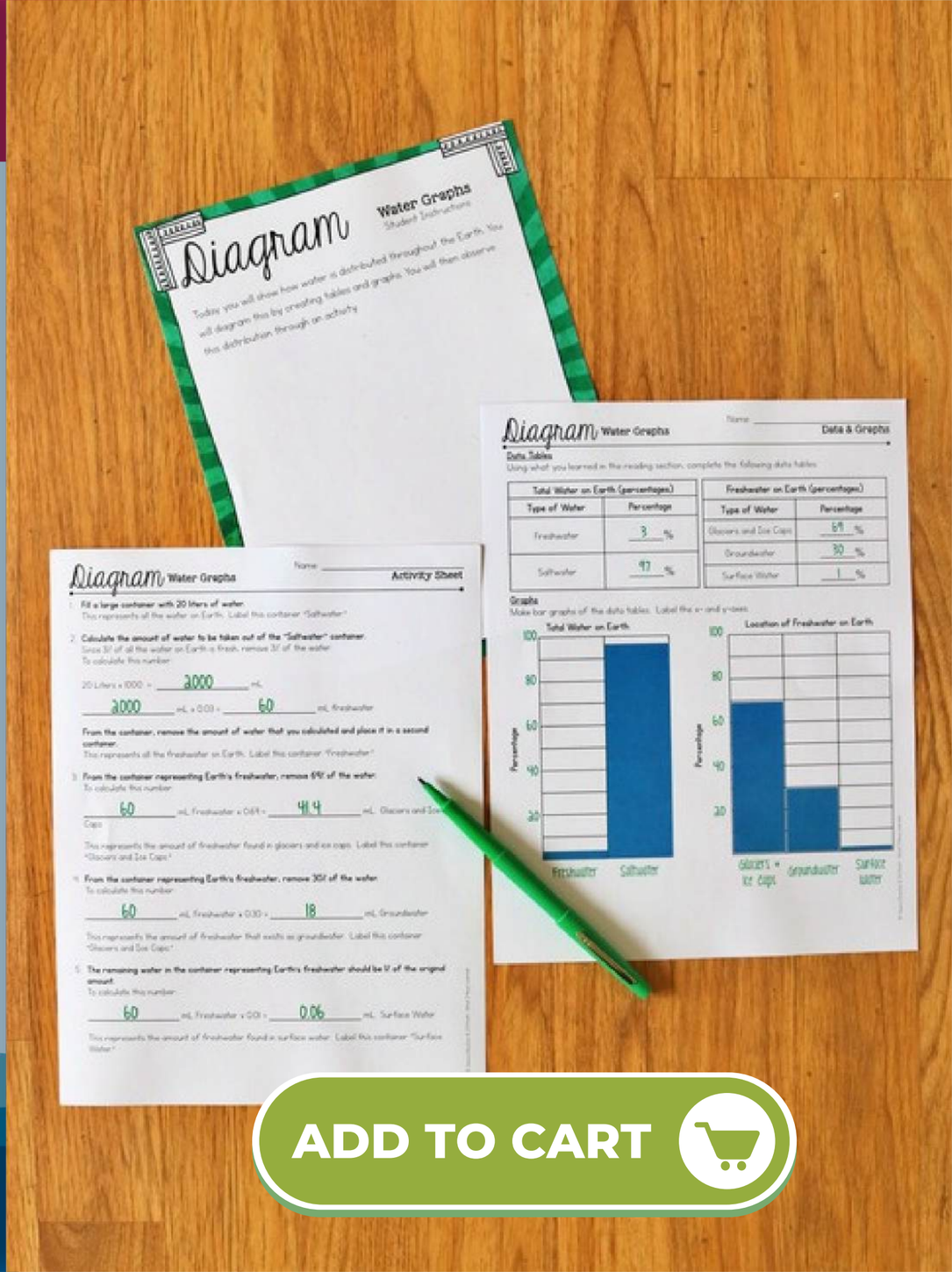
**STUDENTS BUILD A WATERSHED MODEL AND INVESTIGATE HOW WATER MOVES THROUGH LANDFORMS AND WATER SYSTEMS.**

> “My students really enjoyed this activity. It was a great learning activity for them.”
> - Jennifer D.

# DIAGRAM STATION

**STUDENTS CREATE GRAPHS AND DIAGRAMS TO VISUALIZE EARTH'S WATER DISTRIBUTION AND FRESHWATER AVAILABILITY.**

> This is a wonderful resource. I found it so helpful!
> - Tracy B.






# READ STATION

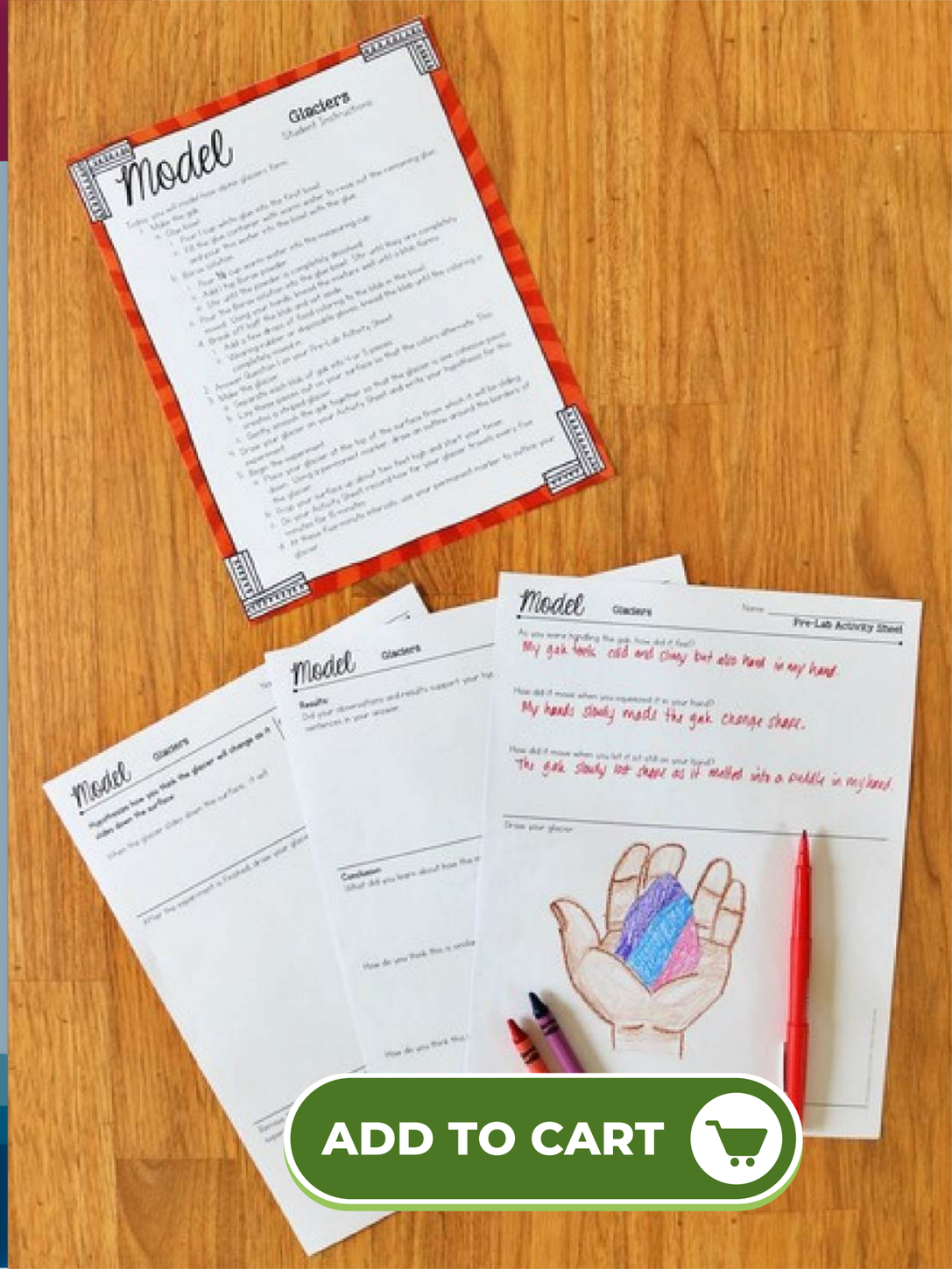
**STUDENTS EXPLORE INFORMATIONAL TEXTS ABOUT THE WATER CYCLE, WATERSHEDS, FRESHWATER RESOURCES, AND EARTH'S WATER SUPPLY.**

> "I think I have officially purchased all of your 5th grade Science Bundles. They are the best!!!"
> - Kerri P.

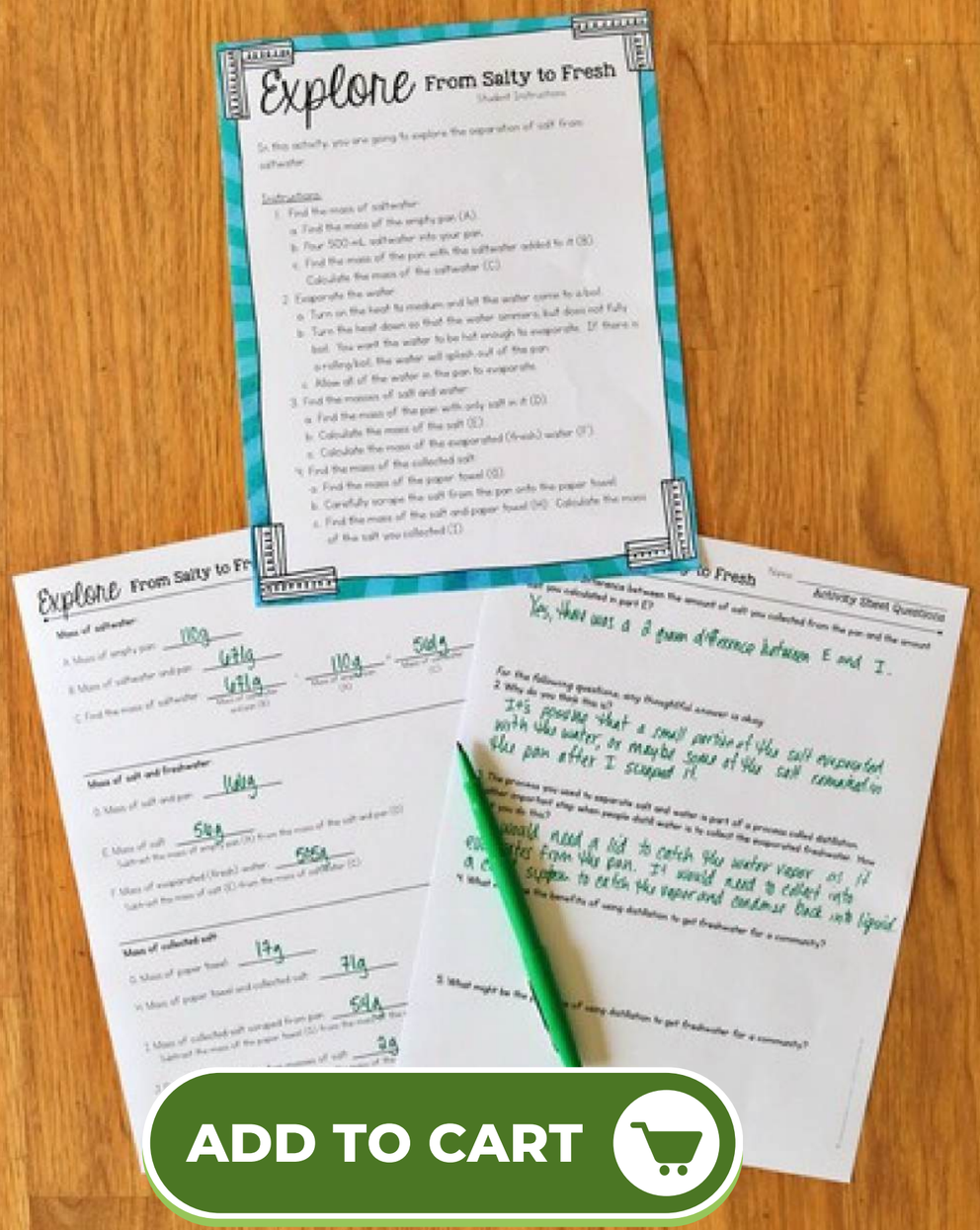
# MODEL STATION

**STUDENTS CREATE AND OBSERVE A GLACIER MODEL TO INVESTIGATE GLACIER MOVEMENT, RUNOFF, AND FRESHWATER STORAGE.**

> My students loved these activities. It made teaching the required standards on water so easy.
>
> - Elizabeth M.



# EXPLORE STATION




**STUDENTS COMPLETE A HANDS-ON DESALINATION ACTIVITY TO DISCOVER HOW SALTWATER CAN BECOME FRESHWATER.**

> These passages and activities are exactly what I need to supplement the hands-on learning kits my district purchases.
> - Amye S.

# SORT STATION

**STUDENTS CLASSIFY REAL-WORLD WATER SOURCES AS SALTWATER OR FRESHWATER THROUGH AN INTERACTIVE SORTING ACTIVITY.**

> This is a great resource for 5th grade! Our kids loved it.
> - Delia T.



WATCH • PLAY • INVESTIGATE • DIAGRAM • READ • MODEL • EXPLORE • SORT

# WATER ON EARTH ACTIVITIES

## SUGGESTED USES

### Learning Stations

Use all eight stations or just a few as learning stations that students complete at their own pace.

### Science Centers

Set up a rotation where students visit each center to complete the activities.

### Whole Class

Use the activities in a whole class format.

### Small Group

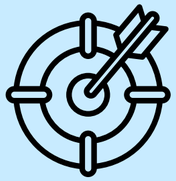
Use the activities with a small group who need extra help.

# YOU WILL LOVE THIS BECAUSE



## Engages Students Through Hands-On Learning

Students investigate, model, graph, sort, and experiment while building a deeper understanding of science concepts.



## Covers an Entire NGSS Standard in One Bundle

Provides comprehensive coverage of Earth's water distribution, freshwater resources, watersheds, glaciers, and the water cycle.



## Saves Teachers Valuable Time

With ready-to-use materials, digital options, and answer keys included, teachers can quickly implement engaging science instruction.

# TEACHERS LOVE IT!

*Great resource! This was engaging and my students really enjoyed this and learned a great deal. Thank you!*

**Nicole M.**



*My students loved these activities. It made teaching the required standards on water so easy. They were age appropriate and engaging. Amazing resource!*

**Elizabeth M.**



**CLICK HERE TO ADD THIS RESOURCE TO YOUR CART:**

**ADD TO CART**

**Check out** securely
**Download** instantly

**Leave a Review**
to earn Reward Points
to get more resources!

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