

Water on Earth

Look at the picture. Read the word.
Write the word in the sentence.



salt water

Most of Earth's water is

_____.



glacier

A _____ is made of
frozen fresh water.



fresh water

_____ is the water
we can drink.



iceberg

An _____ is ice that
floats in the ocean.

Concept:

Water on Earth can be liquid or solid.

Earth's Water

About 70 percent of Earth's surface is covered with water. This water is in both liquid and solid form.



Almost all of the liquid water on Earth is **salt water**. This is water in the ocean. We cannot use salt water. We need fresh water for drinking, washing, and cooking. But only a tiny amount of Earth's water is **fresh water**. Some can be found in rivers and lakes. Other fresh water is underground.



fresh water



glacier

A huge amount of fresh water is locked up inside glaciers. A **glacier** is a thick sheet of ice that forms on land. Glaciers actually move, though very slowly.

Sometimes a huge chunk of ice will break away from a glacier and float into the sea.

This floating ice is called an **iceberg**. As it floats, only the tip of the iceberg shows. The rest is underwater.

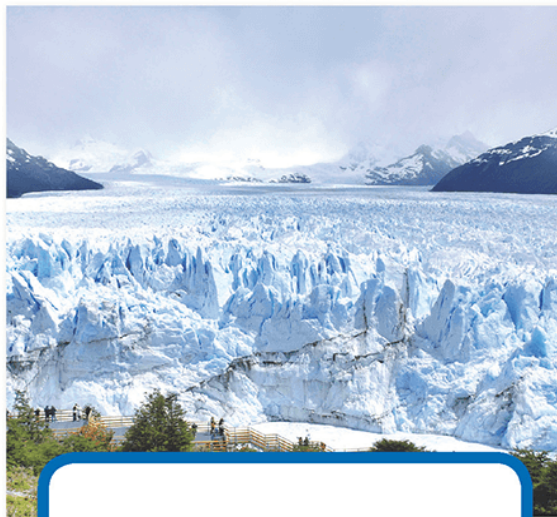
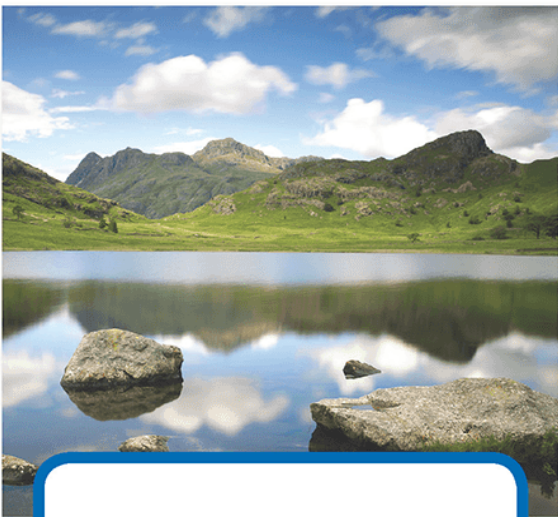
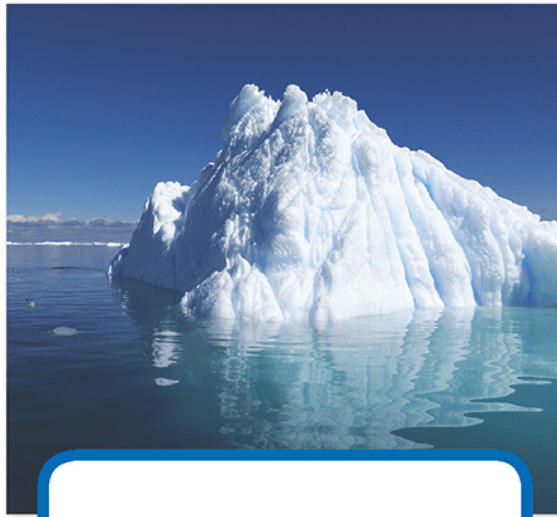
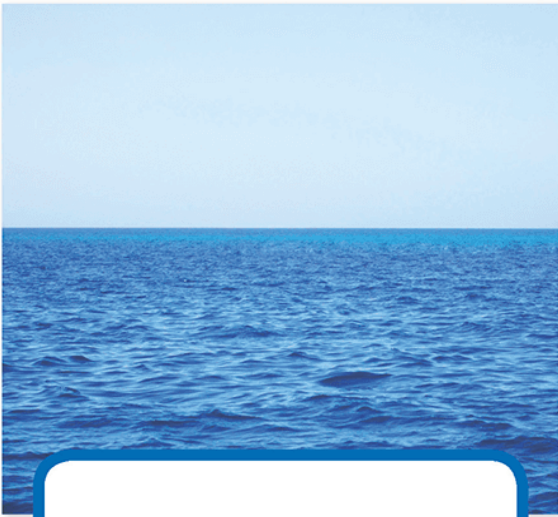


iceberg

Water and Ice

Write the name of each type of Earth's water.

glacier iceberg fresh water salt water



Skill:
Label graphic images to demonstrate understanding of science concepts

Water and Ice

Skill:

Conduct experiments

Moving Glacier

Glaciers move very slowly across the land. You can make your own glacier to help you see how these large sheets of ice move.

What You Need

- resealable plastic bag
- 3 tablespoons warm water
- 1 tablespoon white glue
- 2 tablespoons borax
- drop of blue food coloring
- mixing bowl



What You Do

1. Mix the water and glue in the plastic bag.
2. Add the borax and close the bag. Knead the mixture until it comes together.
3. Open the bag and add a drop of blue food coloring. Mix until the mixture is blue.
4. Set the bowl upside down. This is a mountain. Empty the mixture onto the mountaintop. Watch it creep slowly downhill, the way a glacier would move.

Mini Iceberg

Make a mini iceberg and watch it float.

What You Need

- resealable plastic sandwich bag
- water
- jar with lid
- clear bowl

What You Do

1. Fill the sandwich bag halfway with water.
2. Hold the bag so the water is in a corner. Seal the bag shut.
3. Place the bag inside the jar. Let the end of the bag hang over the top of the jar.
4. Screw the lid on the jar, trapping the end of the bag.
5. Place the jar in the freezer overnight.
6. The next day, remove the mini iceberg from the bag.
7. Fill a bowl with water. Place the mini iceberg in the water.
8. How much of the iceberg is above water? How much is below?



Skill:

Conduct experiments


Skill:

Write sentences to demonstrate understanding of science concepts

Types of Water and Ice

In the boxes below, write the names of the two types of water and ice you learned about, and describe them.

Water
on Earth



Ice
on Earth



Hands-on Activity

Soil Erosion

Explore how wind and water move soil.

What You Need

- disposable plate
- dry soil or sand
- piece of wood
- cup of water

What You Do

- Work outside (in the yard or at the beach) for easy cleanup.
- Sprinkle some soil (or sand) on the plate.
- Blow on the soil. What happened to it? Some of it blew away.
- Now use the wood to prop up the plate.
- Pour water on the soil. What happened to the soil? Some of it washed away, the water made a path.
- How might you keep the soil from being blown or washed away? Cover the soil with something; build a wall of pebbles or mud.

Geology

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Earth's Systems 109

What I Learned

Erosion, Weathering, or People?

What made the change? Write *erosion*, *weathering*, or *people*.

people

erosion

weathering

Geology

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Earth's Systems 110

Water on Earth

Look at the picture. Read the word. Write the word in the sentence.

salt water Most of Earth's water is salt water.

glacier A glacier is made of frozen fresh water.

fresh water Fresh water is the water we can drink.

iceberg An iceberg is ice that floats in the ocean.

Water and Ice

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Earth's Systems 111

Vocabulary

Word Play

Read the clue. Write the word.

- Water in the ocean
s a l t w a t e r
- A sheet of ice on land
g l a c i e r
- Ice floating in the ocean
i c e b e r g
- Water you can drink
f r e s h w a t e r

Write the numbered letters to solve the puzzle.

Science Puzzle

A very large glacier is called an i c e s h e e t.

Water and Ice

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Earth's Systems 114

Visual Literacy

Water and Ice

Write the name of each type of Earth's water.

glacier iceberg fresh water salt water

salt water

iceberg

fresh water

glacier

Water and Ice

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Earth's Systems 115

What I Learned

Types of Water and Ice

In the boxes below, write the names of the two types of water and ice you learned about, and describe them.

Water on Earth

Salt water makes up almost all of the water on Earth. It is found in oceans. People cannot use salt water.

Fresh water is found in rivers and lakes. People need fresh water for drinking, washing, and cooking.

Ice on Earth

Glaciers are thick sheets of ice that form on land.

Icebergs are huge chunks of ice that break away from a glacier and float into the sea.

Water and Ice

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Earth's Systems 118

Scientists

Look at the picture. Read the word. Write the word in the sentence.

scientist A scientist studies the world to find out how it works.

botanist A botanist is a scientist who studies plants.

zoologist A zoologist is a scientist who studies animals.

meteorologist A meteorologist is a scientist who studies weather.

Science

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Science and Engineering 119

Vocabulary

Word Play

Read the clue. Write the word.

- A scientist who studies animals
z o o l o g i s t
- What a meteorologist studies
w e a t h e r
- Scientists conduct these.
e x p e r i m e n t s
- Scientists solve these problems.
r e a l - l i f e
- Scientists make these by doing experiments.
d i s c o v e r i e s

Write the numbered letters to solve the puzzle.

Science Puzzle

A scientist helps us better understand the w o r l d.

Science

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Science and Engineering 122

Visual Literacy

Scientist Tools

These are some tools that scientists use to investigate the world. Draw a line to match the picture with the correct definition. Then write the word on the line.

telescope net balance microscope

a tool used to gather an animal to study
net

a tool used to make objects in the sky look larger
microscope

a tool that makes small objects look much larger
telescope

a tool used to measure the amount of matter an object contains
balance

Science

© Evan-Moor Corp. • BMC 5322 • Skill Sharpeners—Science Science and Engineering 123