Focus question

- What is the water cycle?

Record your first thoughts.
4. A student started to draw a model of the water cycle.

Complete the model by drawing arrows and adding labels to show what happens during the water cycle.

Explain where in the cycle energy transfer occurs and where gravity plays an important role.
Introduce water planet

• Suppose you were a visitor from another planet approaching Earth from above the Pacific Ocean. How would you describe the planet?
Inventory water on Earth

• Not all of Earth’s water is in the ocean. Where are some of the other places where water is found on Earth?
Discuss fresh water

- Only a small portion of Earth’s water is fresh water. What do we mean by fresh water?
Discuss fresh water

Teacher master SS, *Water Planet*
Discuss fresh water

Turn to page 91, “Earth: The Water Planet” in FOSS Science Resources.
1. How much water is left in the large container?

2. How does this model of water distribution help us think about the actual distribution of water on Earth?

3. What are the limitations of this model?
Write a response to this demonstration in your notebook.

• The water demonstration shows that _____.
• What surprised me was that _____.
• I’m wondering _____.
Introduce recording

Notebook sheet 44, *My Water Cycle*
Assign jobs

• The Roller is in charge of rolling the die.

• The Navigator reads the directions and figures out where the group heads next.
Assign jobs

• **The Scribe** records each stop and what happens to the particle.

• **The Monitor** (optional) makes sure everyone in the group stays together throughout its travels.
Overview rules

a. Go to your Water-Location Poster. Record your location on the My Water Cycle sheet with an X. The Roller rolls the die.

b. The Navigator finds that number and reads the statement to find out where to go next. The Scribe marks the next location on their sheet with 1.
Overview rules

c. Depending on the result, roll the die again at that location, or move to the next Water-Location Poster before rolling again. Mark that location with the number 2 (even if it is the same location).
Overview rules

d. Continue rolling the die, moving to the indicated location, and recording the locations until you have rolled ten times and have the numbers 1 through 10 recorded on your sheet.
Simulation results

Starting with the X at your beginning location, connect the numbers 1 through 10 to your ending location.
Discuss water cycle

• How is what you learned from simulating the water cycle different from the “classic” water cycle?
Discuss water cycle

1. What examples can you provide to describe how your model was different?
2. Why is your model for the water cycle different from the “classic” water cycle?
Group water cycle

Draw a group water cycle using information from the water-cycle simulation.

Include as much detail as you can and use arrows to indicate the movement of water in the environment.
Homework

Write a narrative describing the path taken by your water particle.
Read “Earth: The Water Planet” on page 91.

*Earth: The Water Planet*

Earth is known as the water planet. Of the eight planets in the solar system, Earth is the only one that has a vast ocean of water.
Reading comprehension strategy

As you read, use the self-stick notes to jot down notes and label with these symbols.

* interesting
? questions
I important
S surprising
W wondering
Review vocabulary

Spend a few minutes reviewing the vocabulary for this part. Update the vocabulary index and table of contents in your notebook.

• groundwater
• water cycle
Answer the focus question

- What is the water cycle?
View online activity

“Water Cycle”

Water is pulled by gravity and filters into the soil.

Weather and Water Course, 8.1: Water-Cycle Simulation
Step 24
Homework

Notebook sheet 44, *My Water Cycle*

Trace the path of a water particle in the online activity.
Wrap-Up/Warm-Up

Share your answer to the focus question with a partner.

Discuss this question
• Why is Earth called the water planet?