

Ocean Loop Quest

Trace ocean water through a looping system.

SC.5.E.7.2 "Recognize that the ocean is an integral part of the water cycle and is connected to all of Earth's water reservoirs via evaporation and precipitation processes."

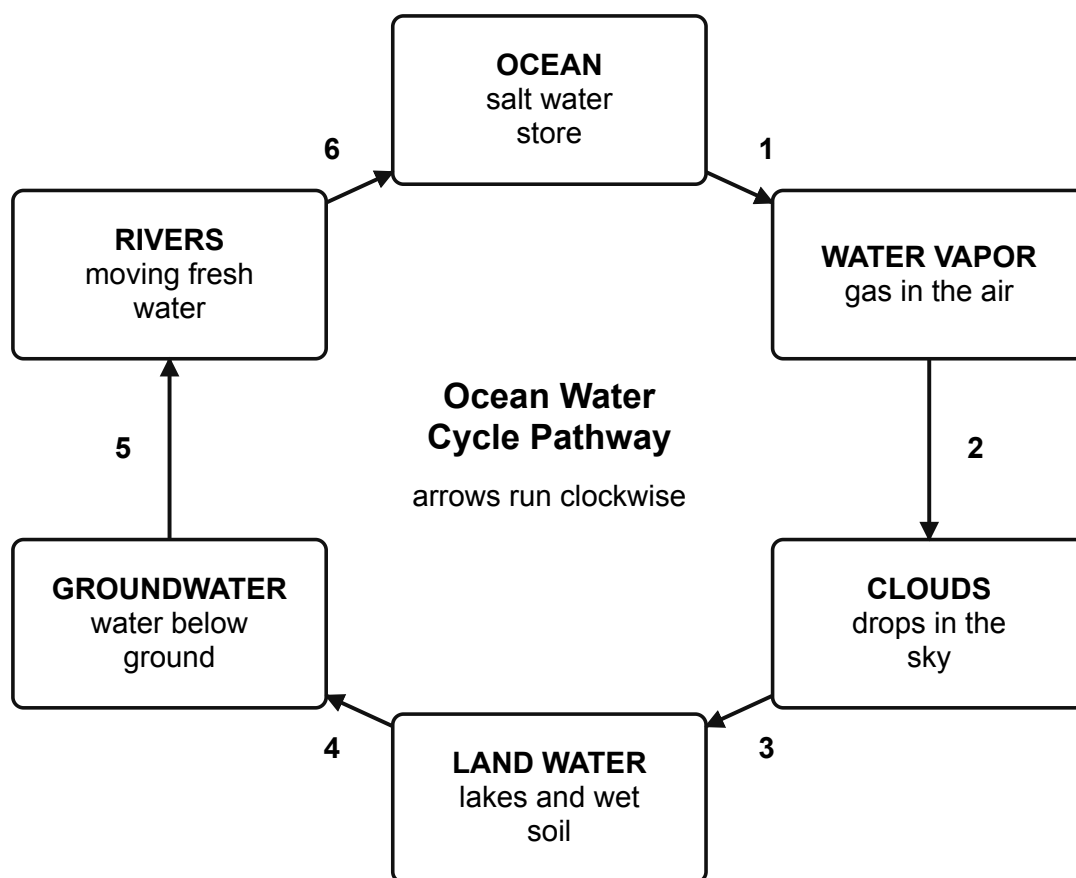
NAME _____

DATE _____

1 LABEL THE MODEL _____ Word bank below

Write one word-bank process in each numbered box. Use each process once to show how water moves through the cycle.

WORD BANK	Condensation	Evaporation	Groundwater discharge	Infiltration
	Precipitation	River flow		



Arrow numbers match the response boxes on the next student section.

Label the arrows

Use the word bank to write the process for each numbered arrow.

Arrow 1

Arrow 2

Arrow 3

Arrow 4

Arrow 5

Arrow 6

2 RUN THE MODEL _____ Use your finished diagram

1 Trace water from the OCEAN to GROUNDWATER. List the stages in order.

2 After water reaches LAND WATER, which three processes can move it back to the OCEAN in this model?

3 How does the OCEAN both send and receive water in this model?



CHECK IT

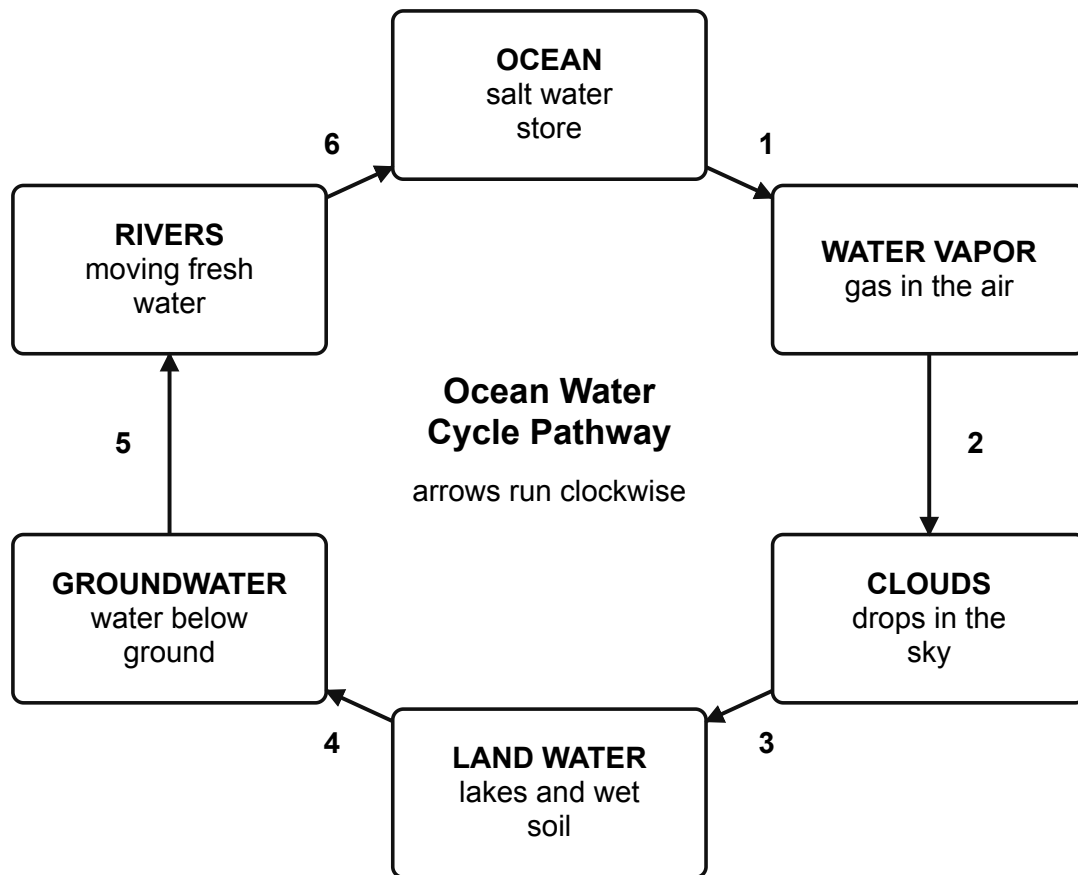
Before you turn it in

- ☐ I used each word-bank process once.
- ☐ I checked that every arrow continues the loop.
- ☐ I can explain how water returns to the ocean.

TEST THE MODEL

Name one water reservoir or pathway that this model leaves out.

PART 1 • COMPLETED MODEL

**Arrow 1**

Evaporation

Arrow 2

Condensation

Arrow 3

Precipitation

Arrow 4

Infiltration

Arrow 5

Groundwater discharge

Arrow 6

River flow

PART 2 • RUN THE MODEL

1. **OCEAN → WATER VAPOR → CLOUDS → LAND WATER → GROUNDWATER** (Trace water from the OCEAN to GROUNDWATER. List the stages in order.)
2. **Infiltration, groundwater discharge, and river flow.** (After water reaches LAND WATER, which three processes can move it back to the OCEAN in this model?)
3. **The ocean sends water by evaporation and receives water from rivers by river flow.** (How does the OCEAN both send and receive water in this model?)

TEST THE MODEL (SAMPLE ANSWERS)

- It leaves out ice and snow.
- It leaves out water falling directly into the ocean.

Use the processes in the listed order for boxes 1 through 6, with box 6 returning RIVERS to OCEAN. The model shows one simplified pathway, so accept other accurate omitted reservoirs or pathways for the limits question.