

Sun to Storm

Sun, ocean, and weather in one cycle.

5.10.A “explain how the Sun and the ocean interact in the water cycle and affect weather;”

NAME _____

DATE _____

1 LABEL THE MODEL _____ Word bank below

Write one process from the word bank in each numbered box. Follow the arrows around the cycle, then use your completed model to answer the questions.

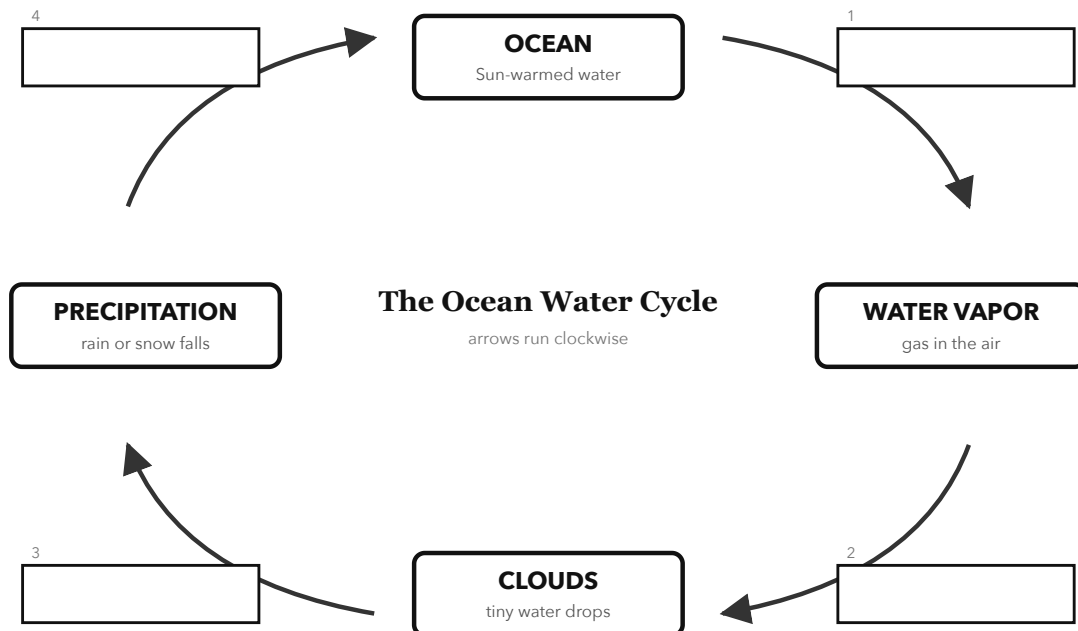
WORD BANK

collection and runoff

condensation

evaporation

precipitation



2 RUN THE MODEL Use your finished diagram

1 What causes water to move from OCEAN to WATER VAPOR?

2 What stage comes after WATER VAPOR, and what process causes it?

3 Use the model to explain one way the ocean can affect rainy weather.

3 CHECK IT Before you turn it in

☐ I used each process once.

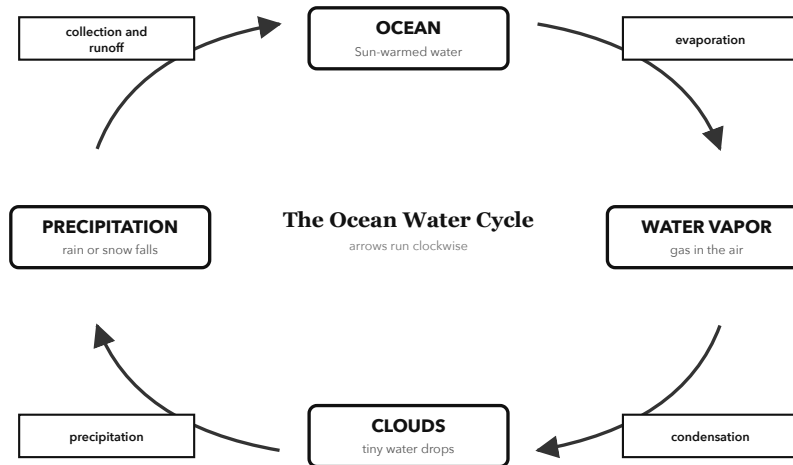
☐ I traced the cycle in order.

☐ I can explain how the Sun causes evaporation.

TEST THE MODEL

What is one part of the real water cycle that this model leaves out?

PART 1 • COMPLETED MODEL



PART 2 • RUN THE MODEL

1. **The Sun heats ocean water, causing evaporation.** (What causes water to move from OCEAN to WATER VAPOR?)
2. **CLOUDS form by condensation.** (What stage comes after WATER VAPOR, and what process causes it?)
3. **Ocean water evaporates, forms clouds, and can fall as precipitation.** (Use the model to explain one way the ocean can affect rainy weather.)

TEST THE MODEL (SAMPLE ANSWERS)

- It leaves out water moving through rivers and groundwater before reaching the ocean.
- It leaves out water vapor released by plants.

Correct arrow sequence: evaporation, condensation, precipitation, collection and runoff. The Sun heats ocean water and drives evaporation, while precipitation can affect weather.