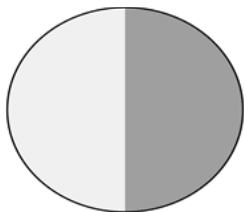


# Lesson 1: Water Cycle & States of Matter

I will:

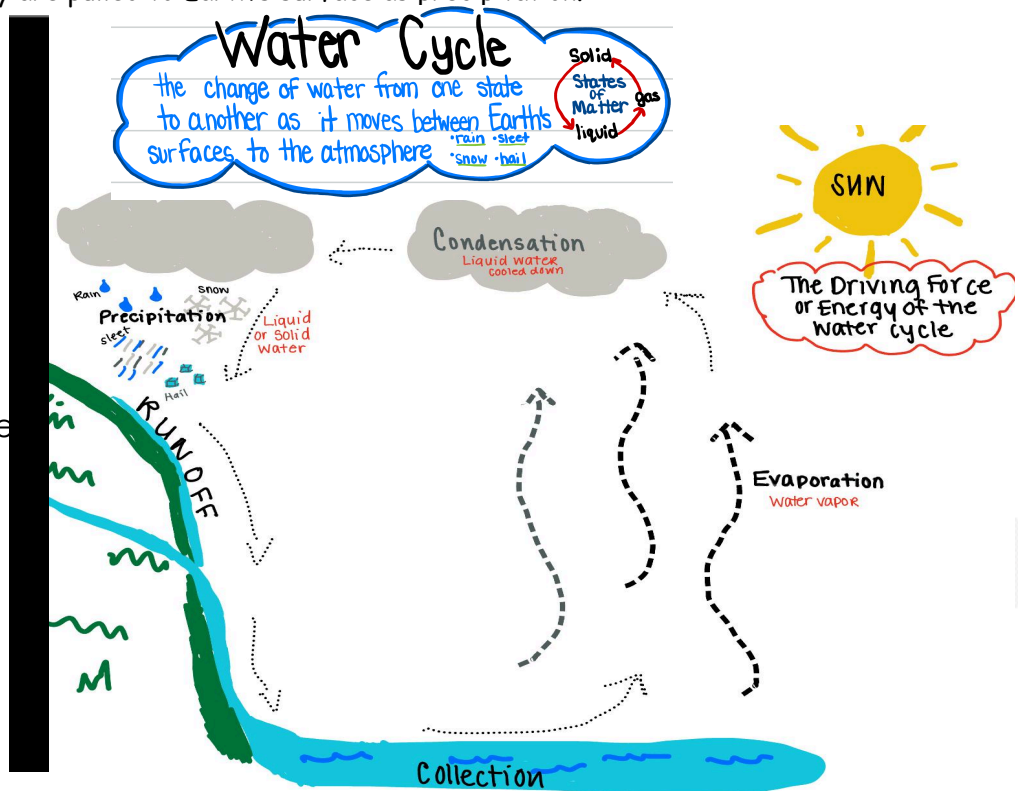
- Identify and/or explain the parts of the water cycle.
- Identify the states of water associated with each part of the water cycle and/or explain the phase changes that occur as water moves from one part of the water cycle to another.
- Understand that the Sun's energy drives the water cycle as it warms the water on Earth's surface.
- Recognize that gravity acts on the water droplets that form in the atmosphere, and once they combine and become large enough, they are pulled to Earth's surface as precipitation.

## Bellringer



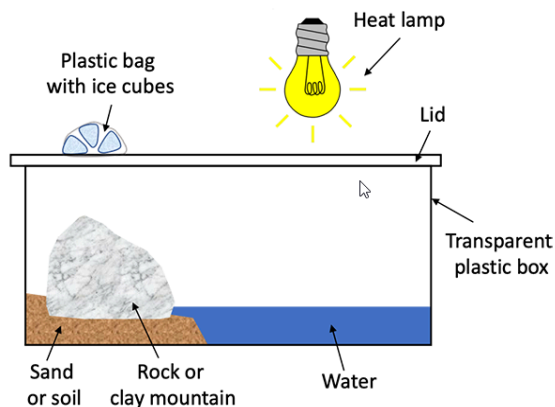
What will the moon look like in approximately 14 days?

- New Moon
- 1st Quarter Moon
- 3rd Quarter Moon
- Full Moon



BRAIN DUMPIII

## Think About This!! Modeling the Water Cycle



How can this model be used to demonstrate the water cycle?

Heat lamp: \_\_\_\_\_

Plastic bag with ice cubes: \_\_\_\_\_

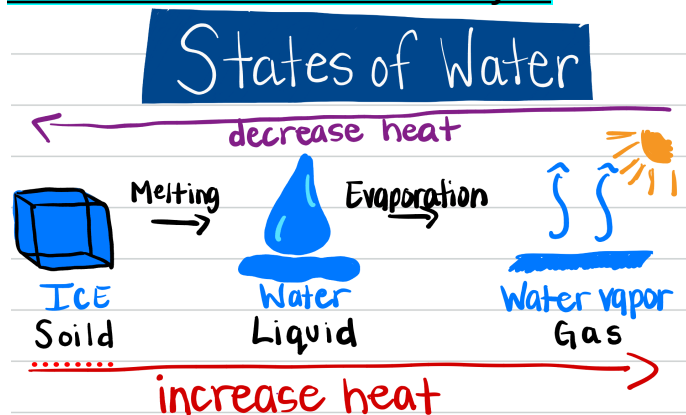
Water: \_\_\_\_\_

The \_\_\_\_\_ is the power source of the water cycle. It causes the water to change from liquid to gas, also known as, \_\_\_\_\_.

# Weather and Climate

## READING:

### States of Water and the Water Cycle

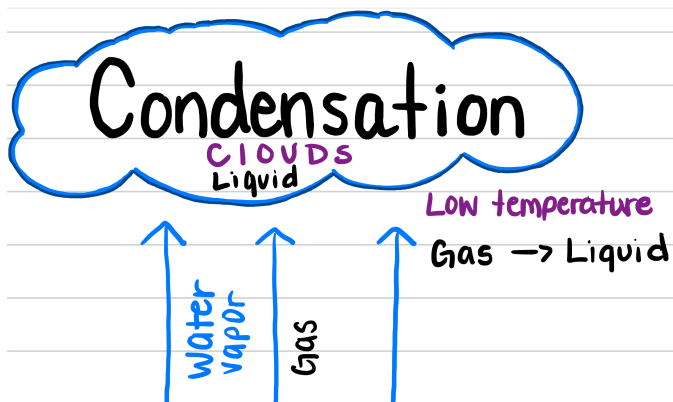


**Evaporation** is the process of the water cycle when water changes from a liquid to a gas called water vapor. The warmer the water the faster the evaporation.

Water vapor is not visible! It's in the air around you Right Now!!!

Does evaporation occur faster in warmer or cooler water? \_\_\_\_\_

Water changing from a liquid to a gas is called what? \_\_\_\_\_



**Condensation** occurs when water vapor gas rises high in the atmosphere and cools causing the gas to turn into a liquid. Clouds are formed by condensation.

This means that the water in the clouds are which state of matter? \_\_\_\_\_

What has to happen to water vapor for condensation to occur? \_\_\_\_\_



**Precipitation** is solid and liquid water falling back to the surface of Earth due to the pull of gravity.

What is precipitation? \_\_\_\_\_

What are the 4 forms of precipitation? \_\_\_\_\_

### After precipitation, what happens?

Rain Snow Sleet Hail

All fall due to gravity

and flow across Earth's surface

**Runoff** into different places:

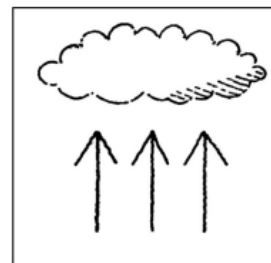
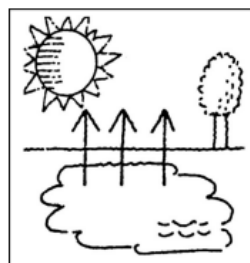
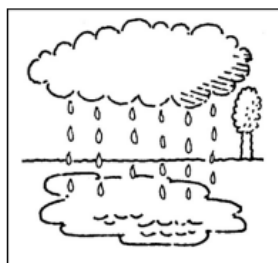
oceans (97%), rivers, ponds lakes, groundwater

Where is most of the water on Earth collected? \_\_\_\_\_

What is the water that seeps into the ground called? \_\_\_\_\_

### Exit Ticket:

1 Label each image to identify each part of the water cycle.



\_\_\_\_\_