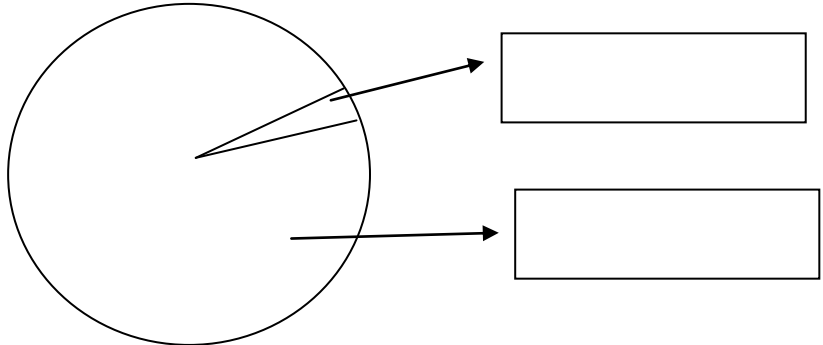


# Oceanography Study Guide

## Water on Earth's Surface

Earth's water is made up, mainly, of **saltwater** and **freshwater**. Label the pie chart correctly to show the distribution of water on land...



Freshwater	➔
Saltwater	

Similar...

Different...



Salt in the Oceans comes from \_\_\_\_\_ and \_\_\_\_\_ of rocks.

**Quick review!**

The two types of weathering are:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

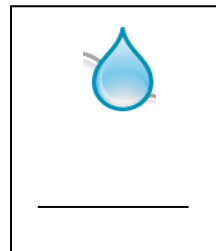
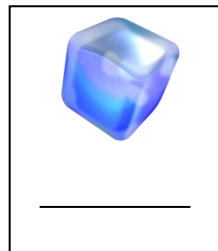
Explain how Sea water changes to freshwater as it goes through the water cycle:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Water exists on Earth in three forms:



Give 2 examples of reservoirs on Earth for each!



- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

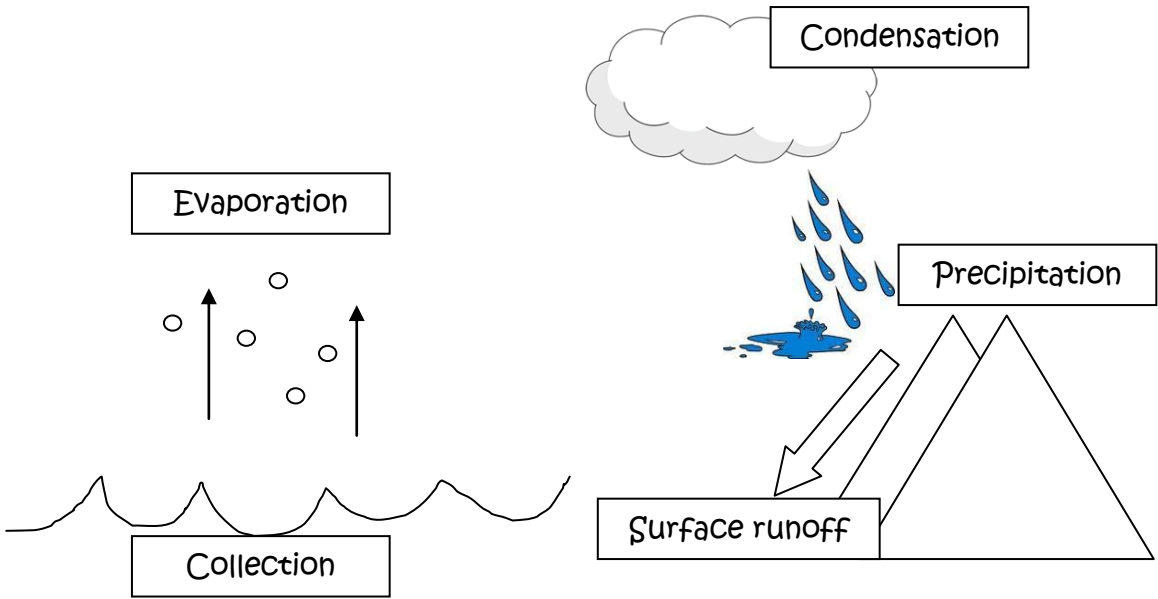


- 1) \_\_\_\_\_
- 2) \_\_\_\_\_



- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

# The Water Cycle



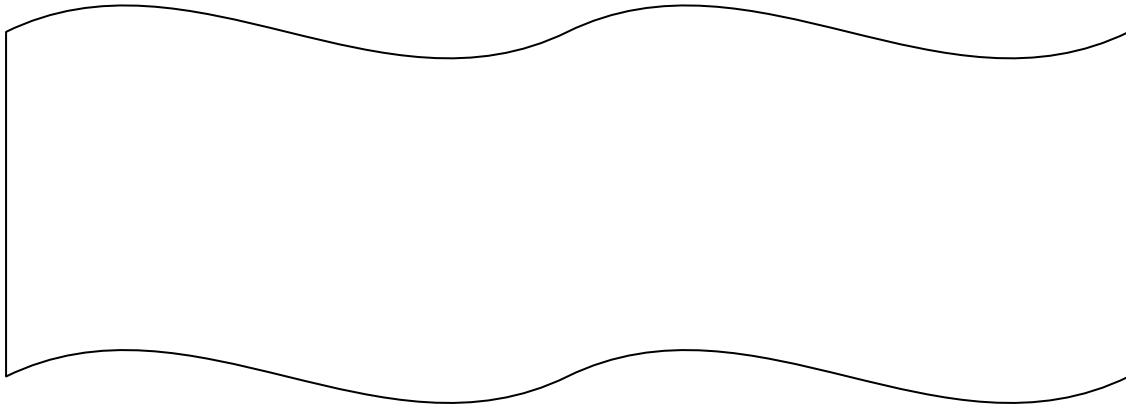
Why does water vapor condense when it travels far above Earth?  
 \_\_\_\_\_  
 \_\_\_\_\_

Water in the soil is called \_\_\_\_\_.  
 We store this water in a reservoir called a(n) \_\_\_\_\_.

Process	Role in the Water Cycle
Evaporation	Produces water vapor from bodies of water
	Produces water vapor from plants
	Forms clouds from water vapor
	Returns water to Earth's surface

Why does cold water sink? \_\_\_\_\_

Use the box below to draw a surface current and a deep current. Label each one!



What causes surface currents?  
\_\_\_\_\_

What causes deep currents?  
1) \_\_\_\_\_  
2) \_\_\_\_\_

---

**Ocean Zones:** Label them here, and include a relative temperature and salinity.

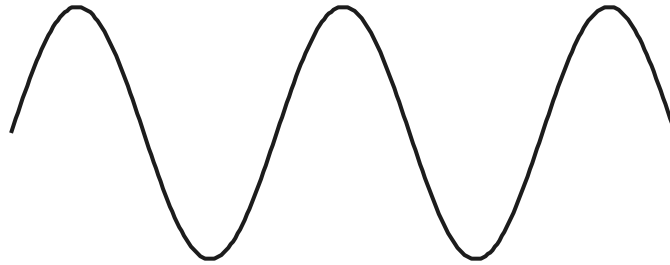

# Geologic Features of the Ocean Floor

List, describe, and draw each one!

List	Describe	Draw

# Waves!

Label:  
Crest, Trough, Wavelength,  
Amplitude



Waves carry \_\_\_\_\_, but  
not \_\_\_\_\_.

Explain what this means in your  
own words:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Waves are caused by:

Three things that determine the size  
of a wave are:

- 1)
- 2)
- 3)

How is a wave different from a tide? \_\_\_\_\_

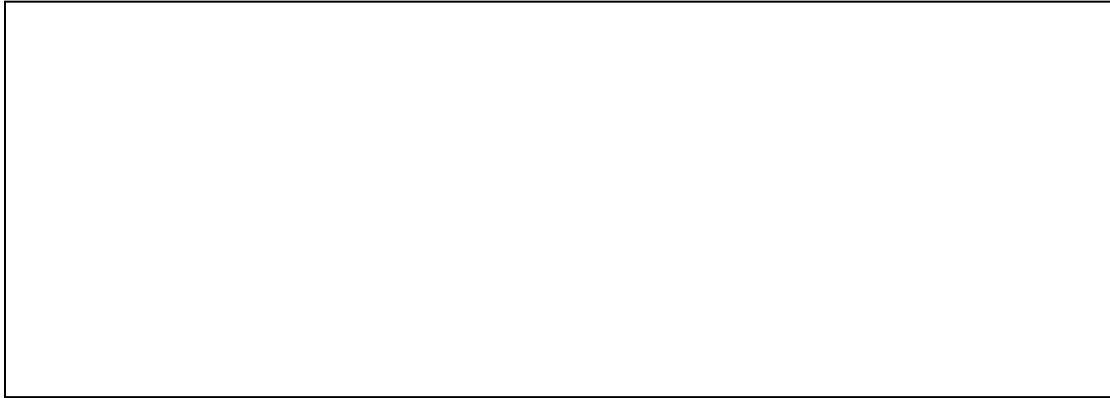
\_\_\_\_\_

\_\_\_\_\_

Explain how the motion of a wave changes as you travel  
deeper in the water: \_\_\_\_\_

\_\_\_\_\_

Draw the position of the Earth, Moon, and Sun during a Spring tide:



Tides are caused by: \_\_\_\_\_

Why does a Spring tide create such a large tide? \_\_\_\_\_

---

Draw the positions of the Earth, Moon, and Sun during a Neap tide:



If you have the first high tide at 1:00 AM, when will the next high tide occur? \_\_\_\_\_







