**Water Cycle Guided Notes (pg. 23-25)**

The water cycle is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of water on, above, and below Earth’s surface.

The \_\_\_\_\_\_\_\_\_\_ provides the energy that drives the water cycle and \_\_\_\_\_\_\_\_\_\_\_\_ water from place to place. As this occurs, water can change state to a \_\_\_\_\_\_\_\_\_\_\_ or a \_\_\_\_\_\_\_ and then back again to a \_\_\_\_\_\_\_\_\_\_\_. The change of state requires either an input or output of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy.

Because the water cycle is continuous, there is no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_. Water \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ moves through all of Earth’s systems.

**EVAPORATION**

When the Sun shines on an ocean, water near the surface absorbs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and becomes \_\_\_\_\_\_\_\_\_\_\_\_\_. As a molecule of water absorbs thermal energy, it begins to vibrate \_\_\_\_\_\_\_\_\_\_\_\_\_\_. When it has enough energy, it breaks away from the other water molecules in the ocean. It \_\_\_\_\_\_\_\_\_\_\_ into the atmosphere as a molecule of gas called \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

*\*\*\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process by which a \_\_\_\_\_\_\_\_\_\_\_\_\_, such as water, changes into a \_\_\_\_\_\_\_\_\_\_\_\_\_.\*\*\**

**TRANSPIRATION AND RESPIRATION**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hold most of the Earth’s water, so they are major sources of \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_. But, water also evaporates from \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and even \_\_\_\_\_\_\_\_\_\_\_\_\_. These sources lone with oceans account for \_\_\_\_\_\_\_\_\_ % of the water that enters the atmosphere. Most of the remaining 10% is produced by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. \*\*\****Transpiration*** *is the process by which \_\_\_\_\_\_\_\_\_\_ release water vapor through their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.\*\*\**

Some water vapor also comes from organisms through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Cellular respiration takes place in many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Water and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are produced during cellular respiration. When animals breathe, they release carbon dioxide and water vapor from their lungs into the atmosphere.

**CONDENSATION**

Temperatures in the troposphere \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with \_\_\_\_\_\_\_\_\_\_\_\_\_\_. So, as water vapor rises through the troposphere, it becomes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Eventually, it loses so much \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that it returns to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ state.

*\*\*\*The process by which a \_\_\_\_\_\_\_\_\_\_ changes to a \_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.\*\*\**

Tiny droplets of liquid join to form larger droplets. When millions of water droplets come together, a \_\_\_\_\_\_\_\_\_ forms.

**PRECIPITATION**

Eventually, drops of water in the clouds become so large and \_\_\_\_\_\_\_\_\_\_\_ that they fall to Earth’s surface.

\*\*\**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that falls from clouds to Earth’s surface is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*\*\**

List some forms of precipitation:

More than \_\_\_\_\_% of precipitation falls into the \_\_\_\_\_\_\_\_\_, and the rest falls onto land. Some of the water \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and goes right back into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Some flows into lakes and rivers, and the rest seeps into \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_.

In the water cycle, water continually moves between the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. As water flows across the land, it interacts with \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Cryosphere:**

**Geosphere:**

**Hydrosphere:**

**Atmosphere:**

**Biosphere:**