

The Water Cycle

- To understand the processes involved in the water cycle

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To understand Water Cycle

- ▶ 1st Understand 3 processes of Nature
- ▶ 1.Evaporation
- ▶ 2.Condensation
- ▶ 3.Precipitation

Evaporation

- ▶ **Evaporation is the changing of a liquid into a gas. You must have heat in order for a liquid to evaporate.**

Liquid to Gas

Condensation

- ▶ Condensation is the changing of a gas into a liquid.
- ▶ When water vapor cools, the water changes form and becomes liquid water.

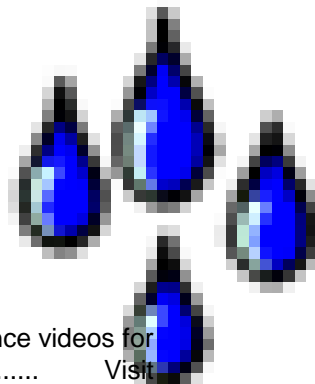
Gas to Liquid

Condensation

- ▶ Clouds form as water vapor cools and forms water drops.
- ▶ Small drops bump into each other forming large drops.
- ▶ When the drops are too big and heavy, they fall as rain.



Gas to Liquid



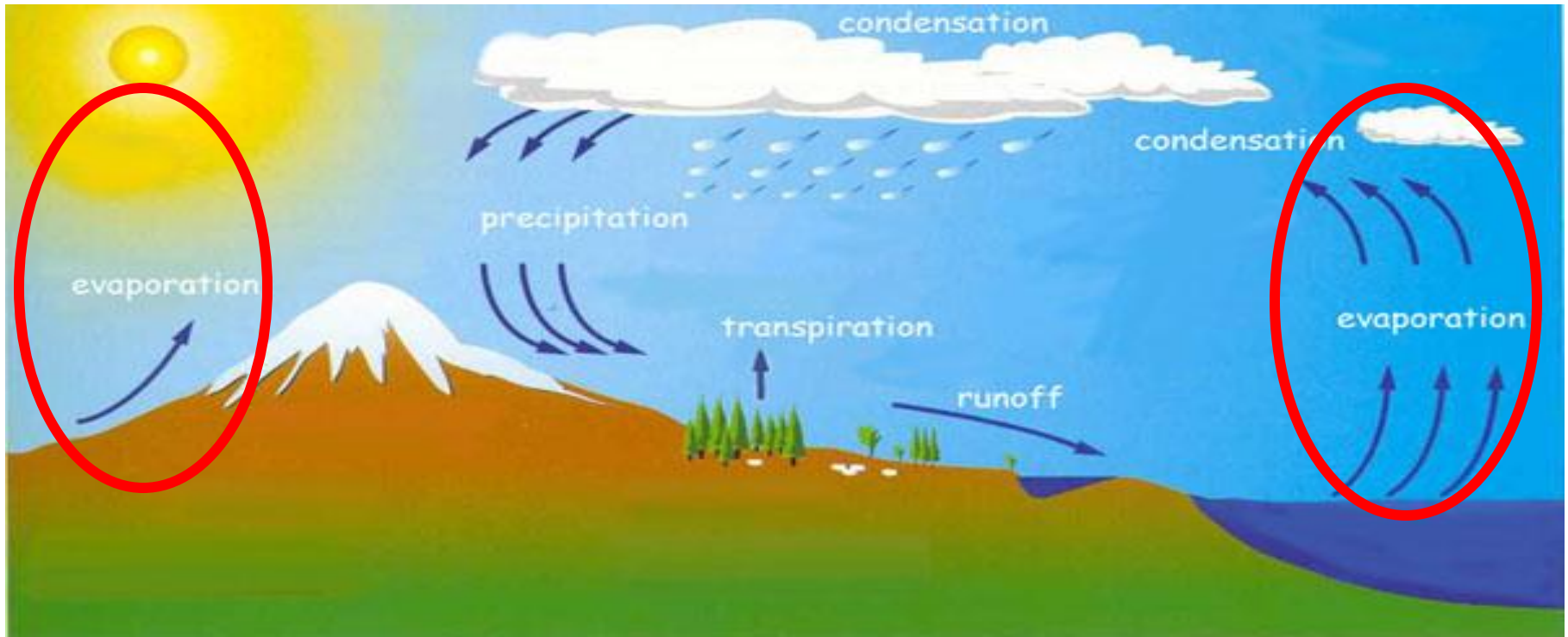
Precipitation

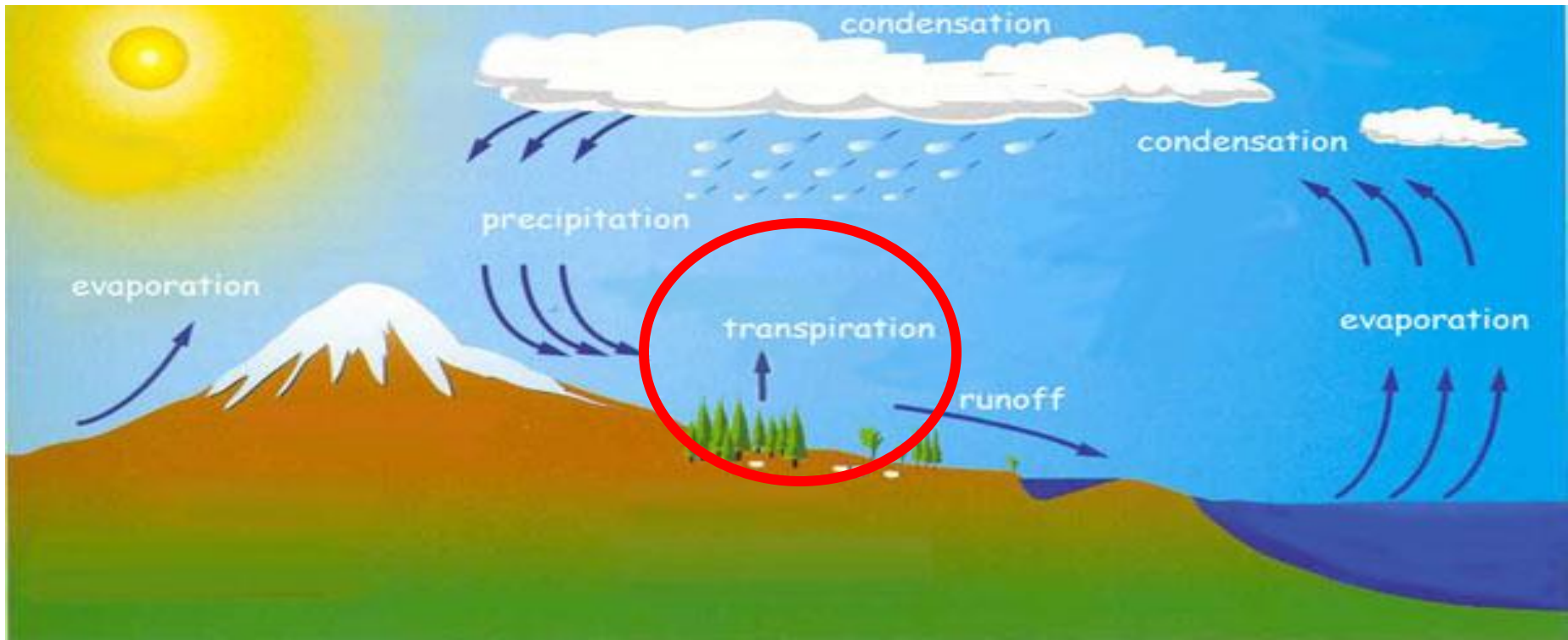
- ▶ Precipitation is water that falls to Earth as either rain, snow, sleet, or hail.
- ▶ Rain is just water drops falling down from the clouds.

**Water Drops falling
after getting heavier**

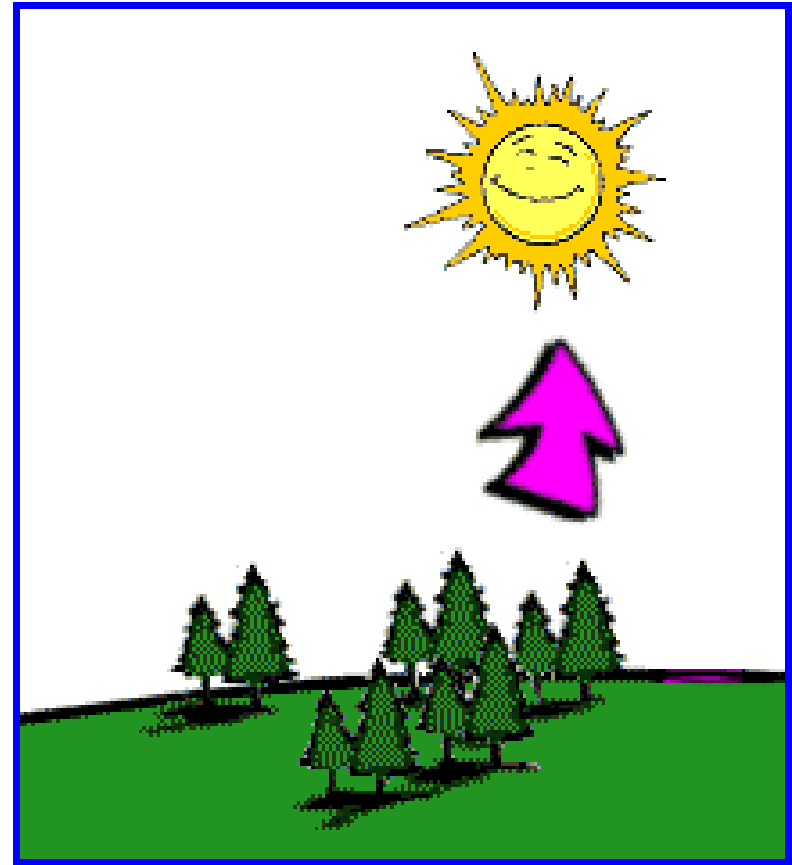


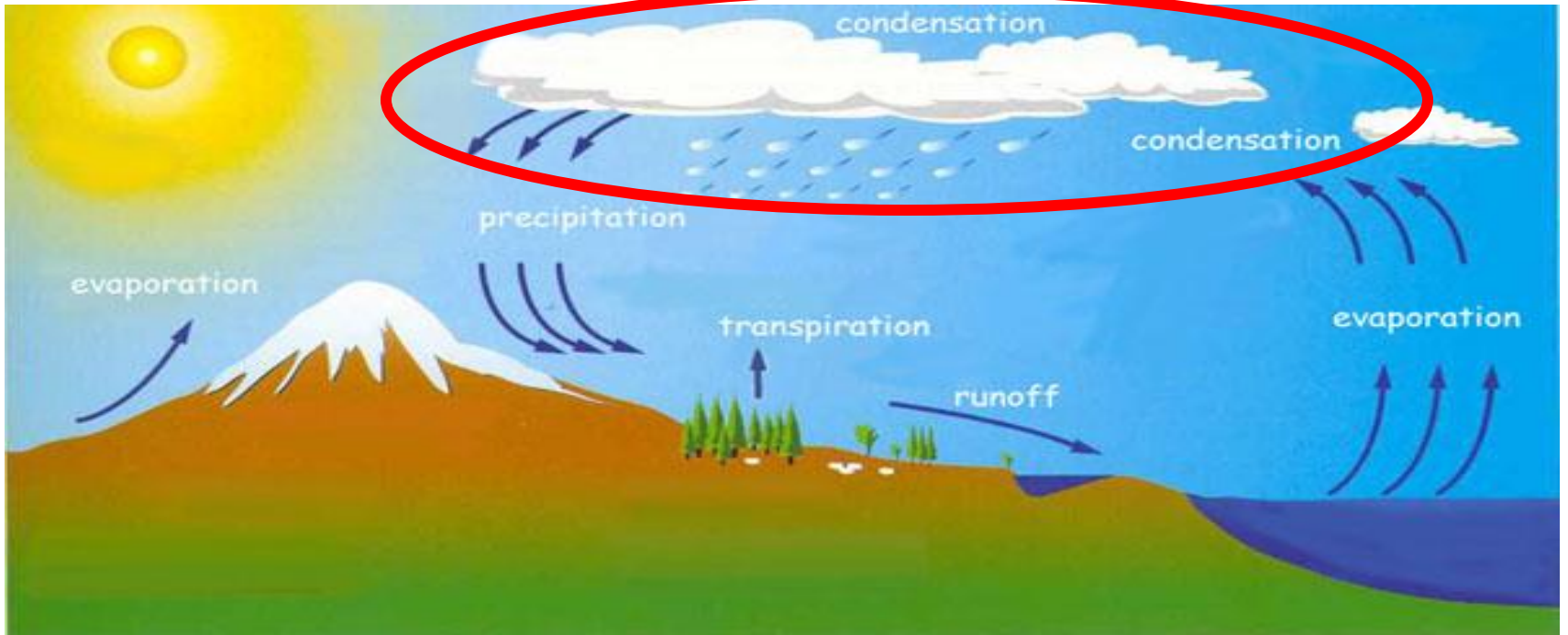
The Water Cycle





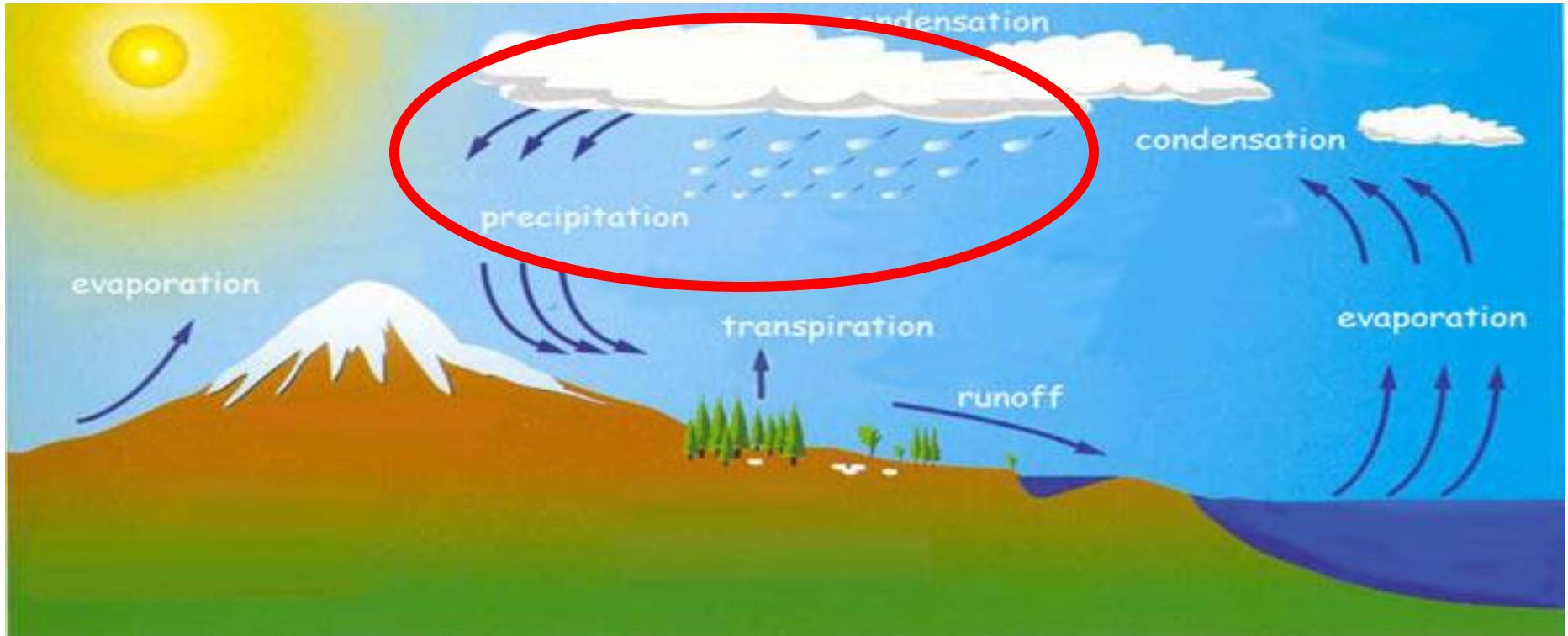
The process of evaporation from plants is called **transpiration**. (In other words, it's like plants sweating.)



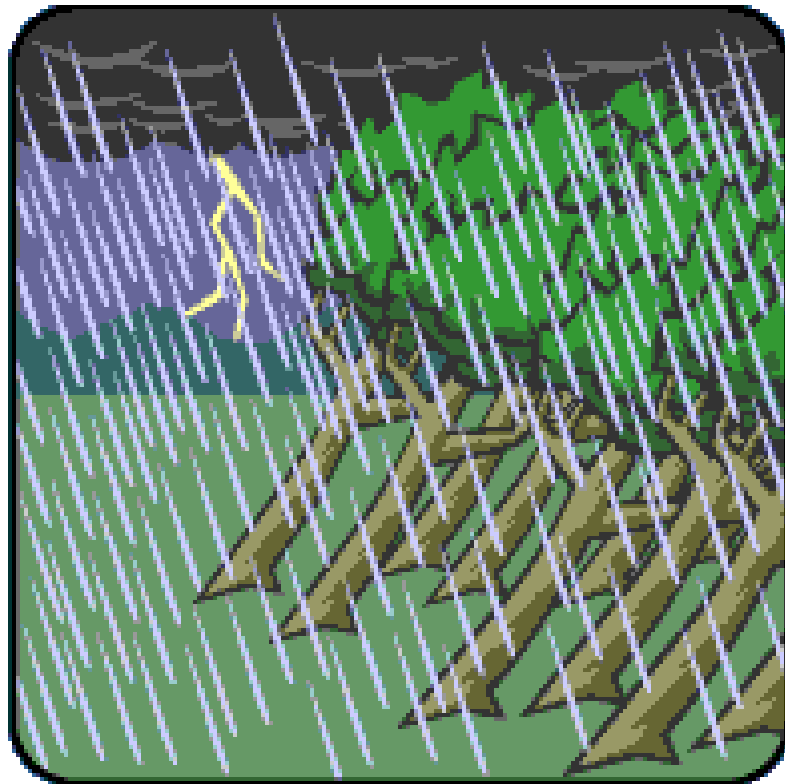


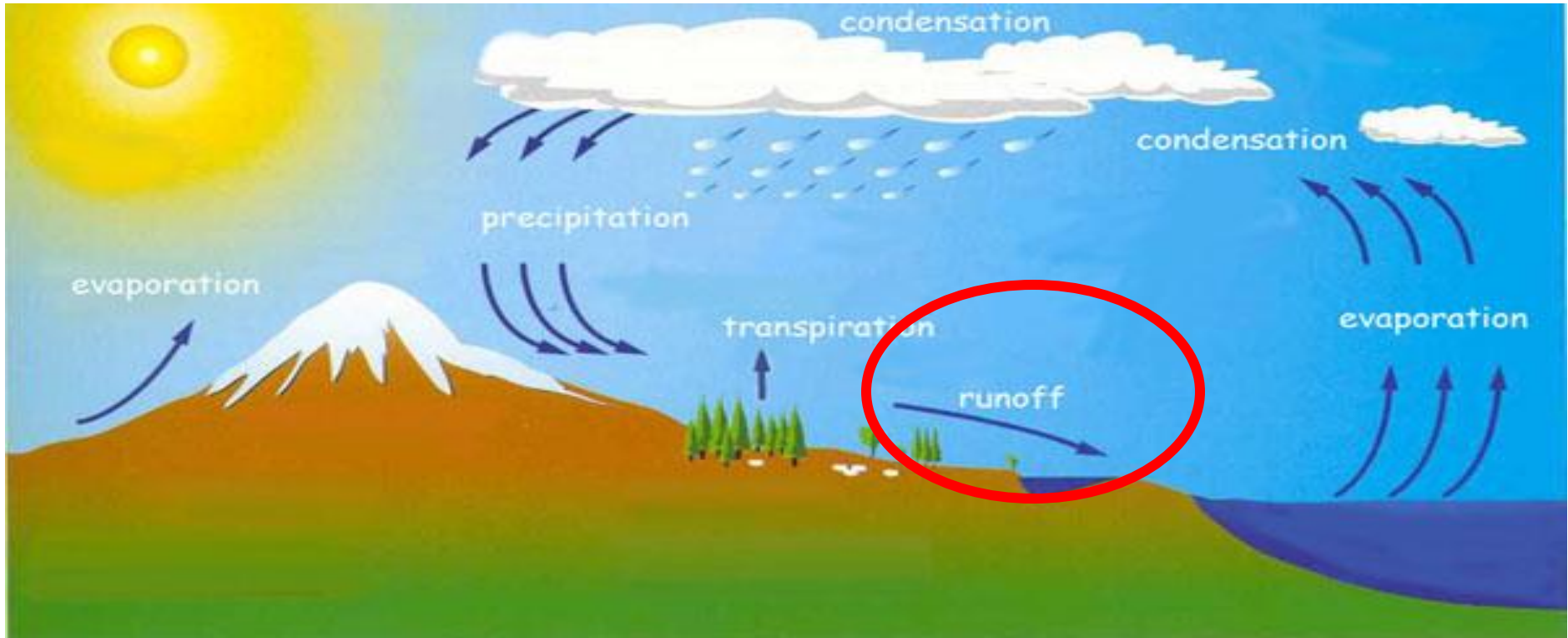
As water (in the form of gas) rises higher in the atmosphere, it starts to cool and become a liquid again. This process is called **condensation**. When a large amount of water vapor condenses, it results in the formation of clouds.





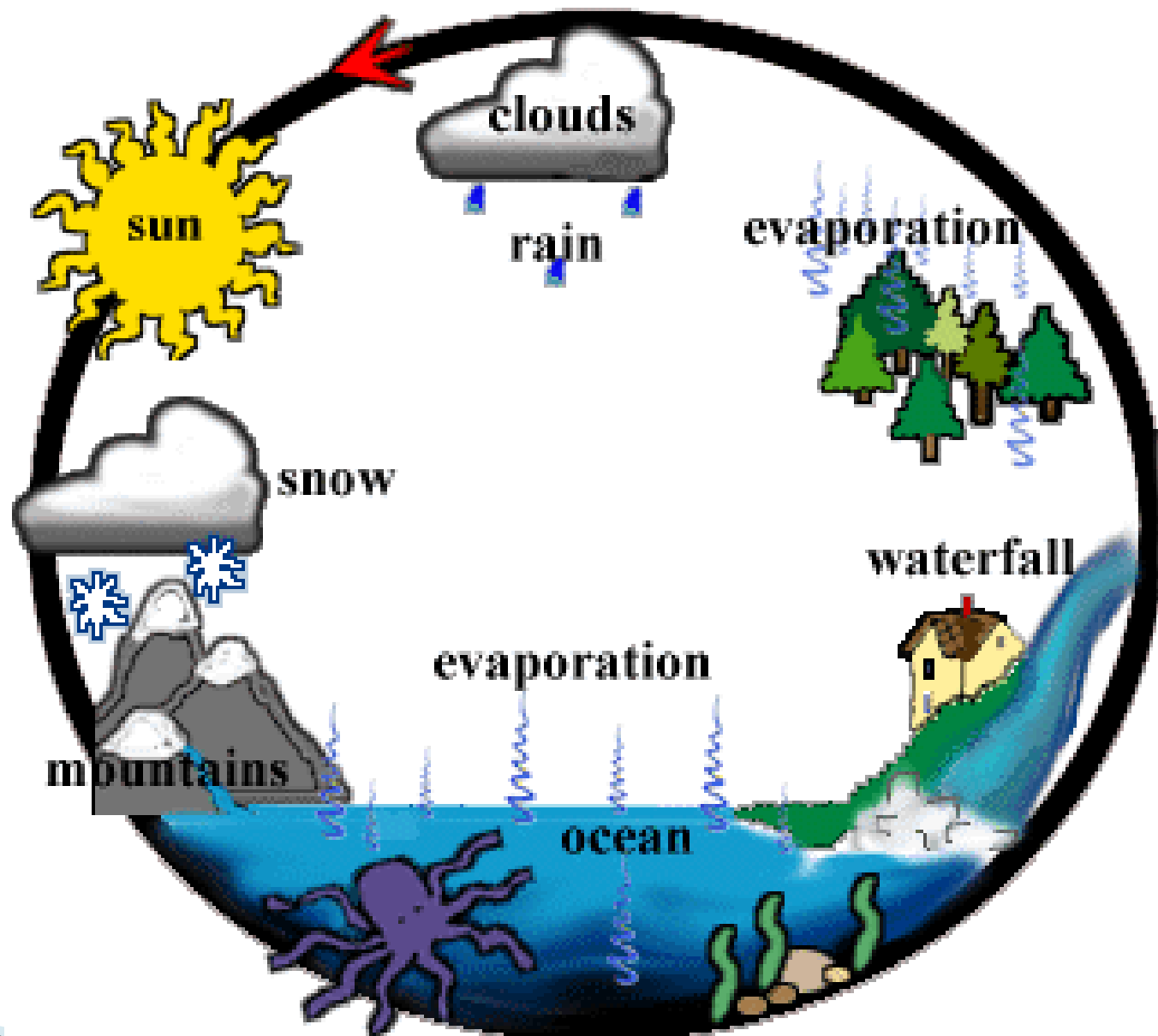
When the water in the clouds gets too heavy, the water falls back to the earth. This is called **precipitation**.





When rain falls on the land, some of the water is absorbed into the ground forming pockets of water called groundwater. Most groundwater eventually returns to the ocean. Other precipitation runs directly into streams or rivers. Water that collects in rivers, streams, and oceans is called **runoff**.





Video on Water Cycle

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