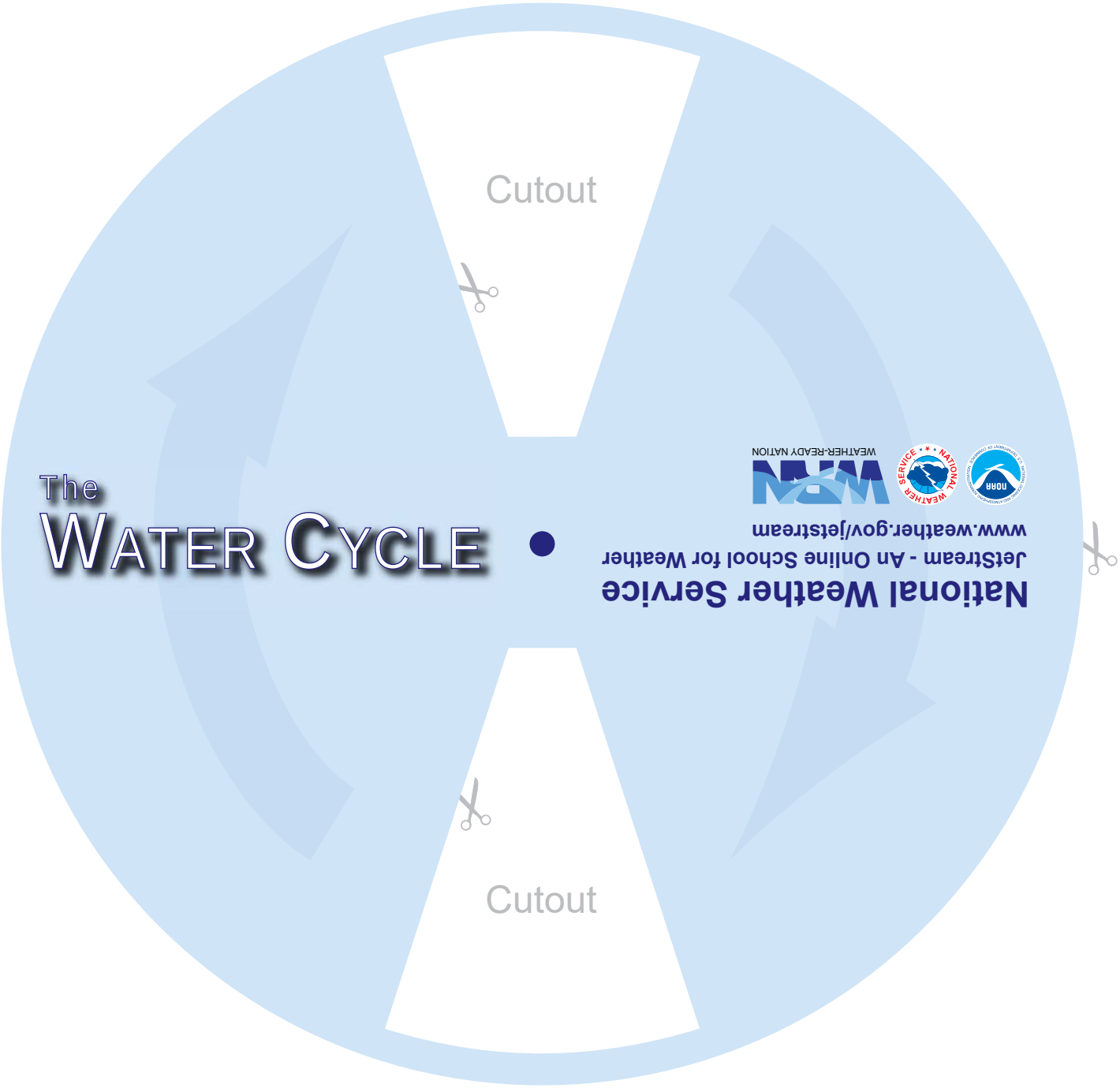

There are over 35 lesson plans in the National Weather Service education website JetStream - An Online School for Weather, a free resource at **www.weather.gov/jetstream**.

Precipitation
The transfer of water, snow, or ice from clouds to the earth. Most precipitation falls as rain. Around 313,000 cubic miles (515,000 cubic km) of water falls each year, mainly over the ocean.
Infiltration/Percolation
Infiltration
Percolation
Groundwater
The movement of water into the ground from the surface. Infiltration refers to water that penetrates into the surface of soil. Percolation is water movment past the soil deep into ground-water.
Surface/Groundwater Flow
Surface Flow
Groundwater Flow
Surface flow is the river, lake, and stream transport of water from land to the oceans. Groundwater is the flow of water deep underground and may return to the surface in springs or seep into the oceans.
Condensation
The process where a gas (water vapor) changes into a liquid (water droplets). Clouds appear. Also seen on the outside of glasses filled with ice on days with high humidity.
Deposition
The process where a gas changes into a solid bypassing the liquid phase. In this case water vapor changes into ice crystals. Often seen as frost that forms on a clear and calm winter's night.
Transpiration
The process where water evaporates from the leaves of plants and trees into the atmosphere. About 90% of all water that enters the roots transpires into the atmo-sphere.
Plant Uptake
Plant uptake is water re-moved from the soil and subsurface water flow via roots to be used by the plant. How-ever most of the water that plants uptake passes through into the atmo-sphere.
Transportation
Transportation is the movement of solid, liquid and gaseous water through the atmosphere. Without this movement, the water evaporated over the ocean would not precipitate over land.
Evaporation
Evaporation is the change of state of water (a liquid) to water vapor (a gas). Oceans, seas, lakes, and rivers provide nearly 90% of the moisture in the atmosphere via evaporation.
Sublimation
The process where ice and snow (solids) change into water vapor (a gas) without moving through the liquid phase. Glaciers can experience the loss of ice due to this process.

Learn more about the water cycle in
JetStream - an Online School for Weather
https://www.weather.gov/jetstream/atmos/hydro

JetStream is a free resource to learn the how's and why's of weather. There are over 35 lesson plans in JetStream.

www.weather.gov/jetstream