




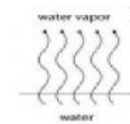
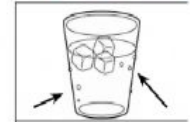


Word	Definition	Prefix/Suffix	Picture
Water cycle			
evaporation			
transpiration			
sublimation			
condensation			
precipitation			
Run off			

Directions: Match the pictures to the vocabulary words, then write the definition of each word.

Evaporation		Evaporation means... The process of water turning from a liquid to a gas and rising into the atmosphere.
Transpiration		Transpiration means...
Condensation		Condensation means...
Precipitation		Precipitation means...
Crystallization		Crystallization means...



Procedure

In the scenario above, the impact on the hydrologic cycle was caused by a natural catastrophe. Analyze the following scenarios to determine how humans and other organisms impact the hydrologic cycle:

Scenario 1: In India, the burning of fossil fuels in urban areas for energy and transportation combined with the burning of vegetation to clear land for farming has emitted aerosols and ash into the atmosphere, resulting in a blanket of haze over the Indian Ocean. Only one-third of the incoming radiant energy is able to penetrate the haze and reach the surface of the water.

1. Analysis of Event	
Impact on hydrologic cycle	
Impact caused by	

Scenario 2: Arid mountainous regions typically receive rainfall when moisture-filled air quickly moves up a mountainside, cools, and condenses into rain clouds. However, pollutant-derived aerosols in the atmosphere combine with the water vapor, which results in the condensation of smaller water droplets. Smaller droplets often evaporate before rain clouds can be formed.

2. Analysis of Event	
Impact on hydrologic cycle	
Impact caused by	

Scenario 3: Sulfates and nitrates released into the atmosphere through the burning of fossil fuels can combine with water droplets and fall as acid rain. Acidic groundwater seeps into the soil, removing nutrients used by plants and leaching out aluminum, which is toxic to plants and animals, resulting in the reduction of plant life in the area.

3. Analysis of Event	
Impact on hydrologic cycle	
Impact caused by	