

Weather Study Guide

Name _____

Fill in the blank.

Weather is constantly changing. It is measured using different instruments.

A meteorologist forecasts or predicts the weather using data collected from these instruments.

Air moves from high(H) to low(L) pressure creating winds.

Match with the correct word/picture pair.

An anemometer measures wind speed.



barometer

A thermometer measures temperature.



rain gauge

A barometer measures air pressure.



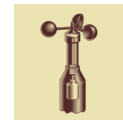
wind vane

A wind vane measures wind direction.



thermometer

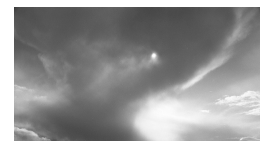
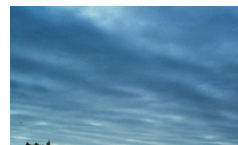
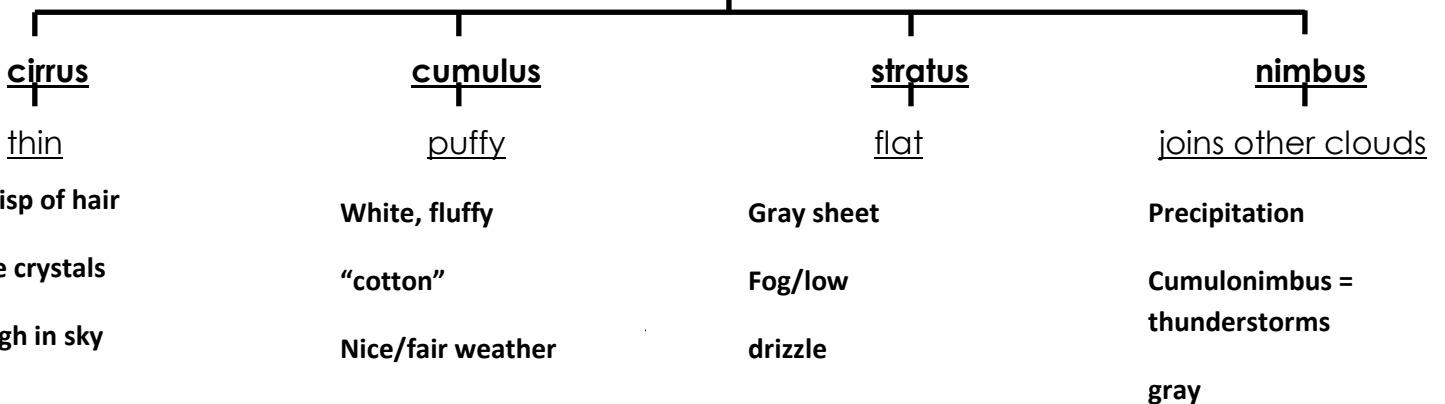
A rain gauge measures amount of precipitation.



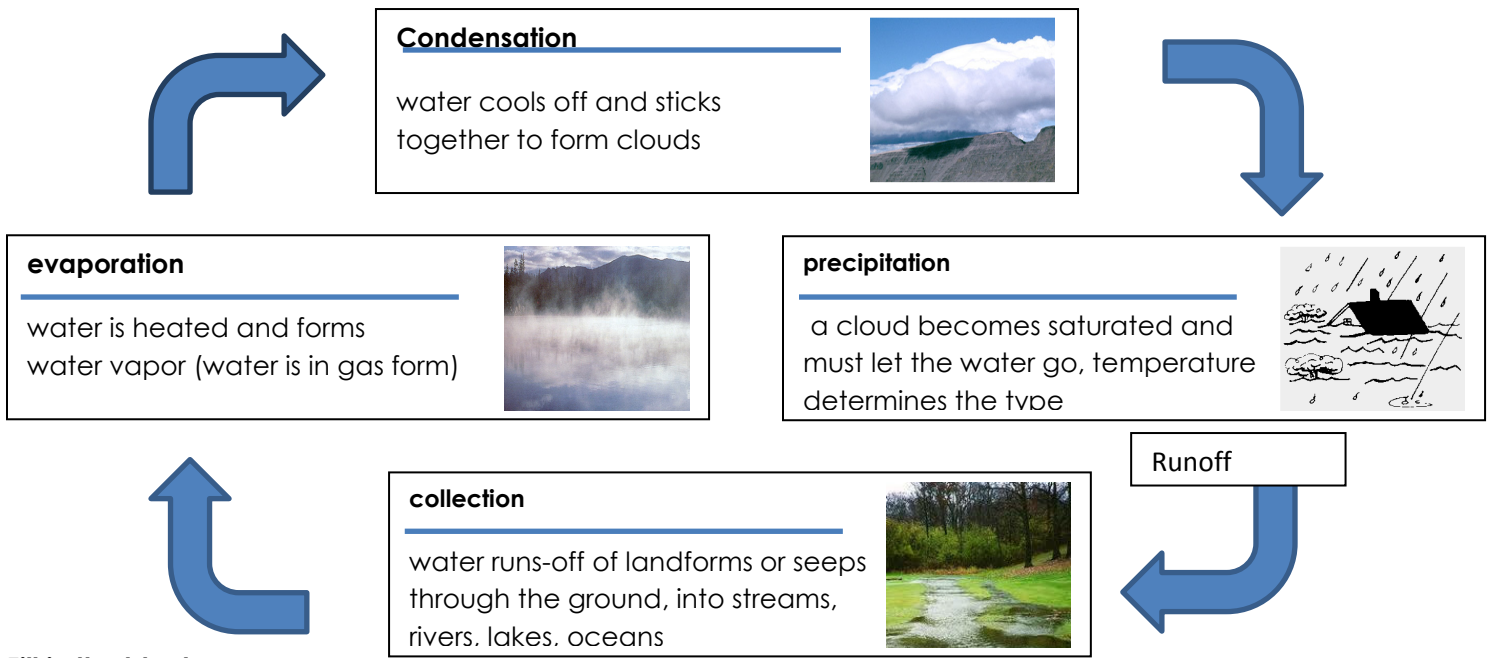
anemometer

Complete the tree map on clouds.

Cloud Types



Complete the Water Cycle flow map.



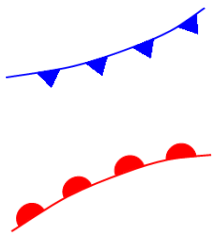
Fill in the blank.

The sun's energy is the driving force of the water cycle.

Transpiration is the evaporation of water that has come through the leaves of plants.

Fronts are boundaries between 2 air masses different temperature.

When these air masses have different temperatures and cause a front, thunderstorms often occur.

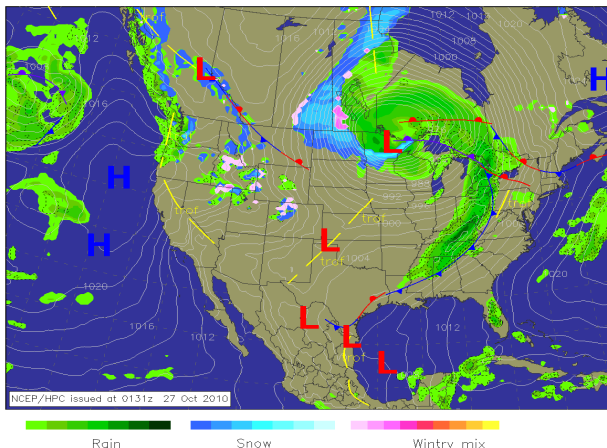


Cold fronts occur when cold air replaces warmer air and often

Produce severe weather.

Warm fronts occur when warm air replaces cooler air and often brings fog.

Analysis valid 0000 UTC Wed 27 Oct 2010



Using the weather map, answer the questions.

What area is currently in a Low pressure system?

Midwest of US, west of Canada, East in Mexico, Gulf of Mexico

What area is getting the most precipitation?

West of NC and up through Canada, above Great Lakes

Why is there a cold front at the leading edge of the rain moving into North Carolina?

Because a cold front brings storms where the cold air takes place of warm air

Causes convection—big temperature difference