Humidity

- Humidity is a term used to describe the amount of water vapor in the air
 - Ex: The air in the room has 97% humidity
- Saturation is a term used to describe how much water vapor a kilogram of air needs in order to be considered full

- Ex: warm air can hold more water vapor than cold air

Relative Humidity

- Relative humidity is a term used to describe how much water vapor the air will hold a certain temperature
 - Ex: When it is 77F degrees outside then 20 grams of water vapor is needed in every kilogram of air for the air to be fully saturated
 - Ex: When it is 50F degrees outside then only 7 grams of water vapor is needed in every kilogram of air for the air to be fully saturated



Relative Humidity

- If the amount of water vapor in the air does not change, then
 - 1) as temperature decreases relative humidity will increase
 - 2) as temperature increases relative humidity will decrease



The cold air is now holding more water vapor per section of air than the warm air. Rememberthe amount of water vapor is the same, but warm air can store more vapor than cold air

Dew Point

- The dew point is the temperature at which the water vapor in the air condenses into liquid water.
 - High dew point = moist air
 - Low dew point = dry air