**Properties of Water**

For every temperature, there is a saturation pressure , and for every pressure there is a saturation temperature .

For example, at sea level water boils at 212. So, = 212,

If the given temperature is lower than the saturation temperature for the given pressure, then you have a subcooled liquid

If the given pressure is higher than the saturation pressure for the given temperature, then you have a compressed liquid

If the given temperature is higher than the saturation temperature for the given pressure, then you have a superheated vapor.

If the given pressure is lower than the saturation pressure for the given temperature, then you have a superheated vapor.