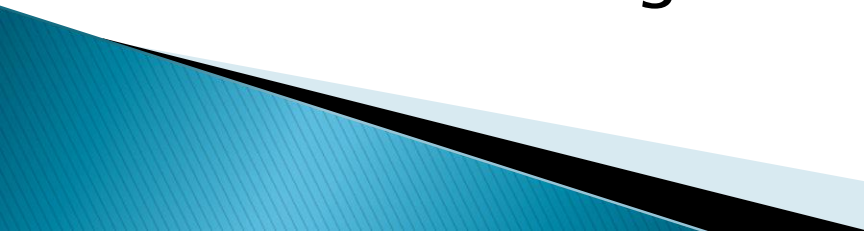


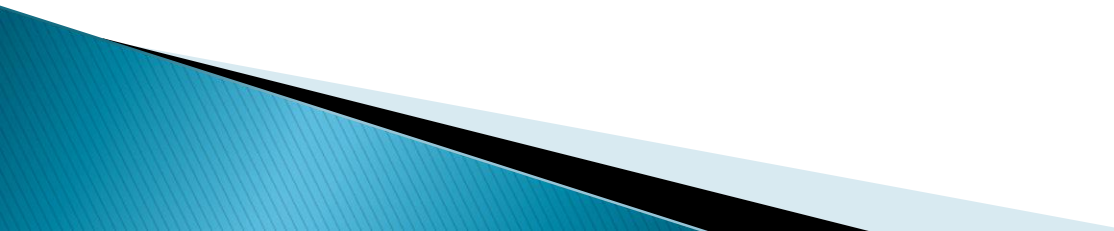
Phase Changes



What is Heat?

- ▶ Heat is the transfer of energy from one object to another. We measure heat in *Temperature* (either Fahrenheit or Celsius).
 - ▶ All objects have “heat.” The more the molecules within a substance move, the more heat they have. Slower moving particles have less heat.
 - ▶ No such thing as “COLD” in Science.
- 

Heat and Phase Change

- ▶ As heat enters or leaves a system, it has the ability to affect the state of matter an object is in.
 - ▶ This is called a *Change of State* or *Change of Phase*.
 - ▶ Each Phase Change has a different name and function.
- 

Melting

- ▶ The change from a Solid to a Liquid



Freezing

- ▶ The Change from a Liquid to a Solid



Vaporization

- ▶ The Change from a Liquid to a Gas.
- ▶ There are 2 types of Vaporization: Evaporation and Boiling



Evaporation

- ▶ Vaporization that occurs only at the surface of a liquid.



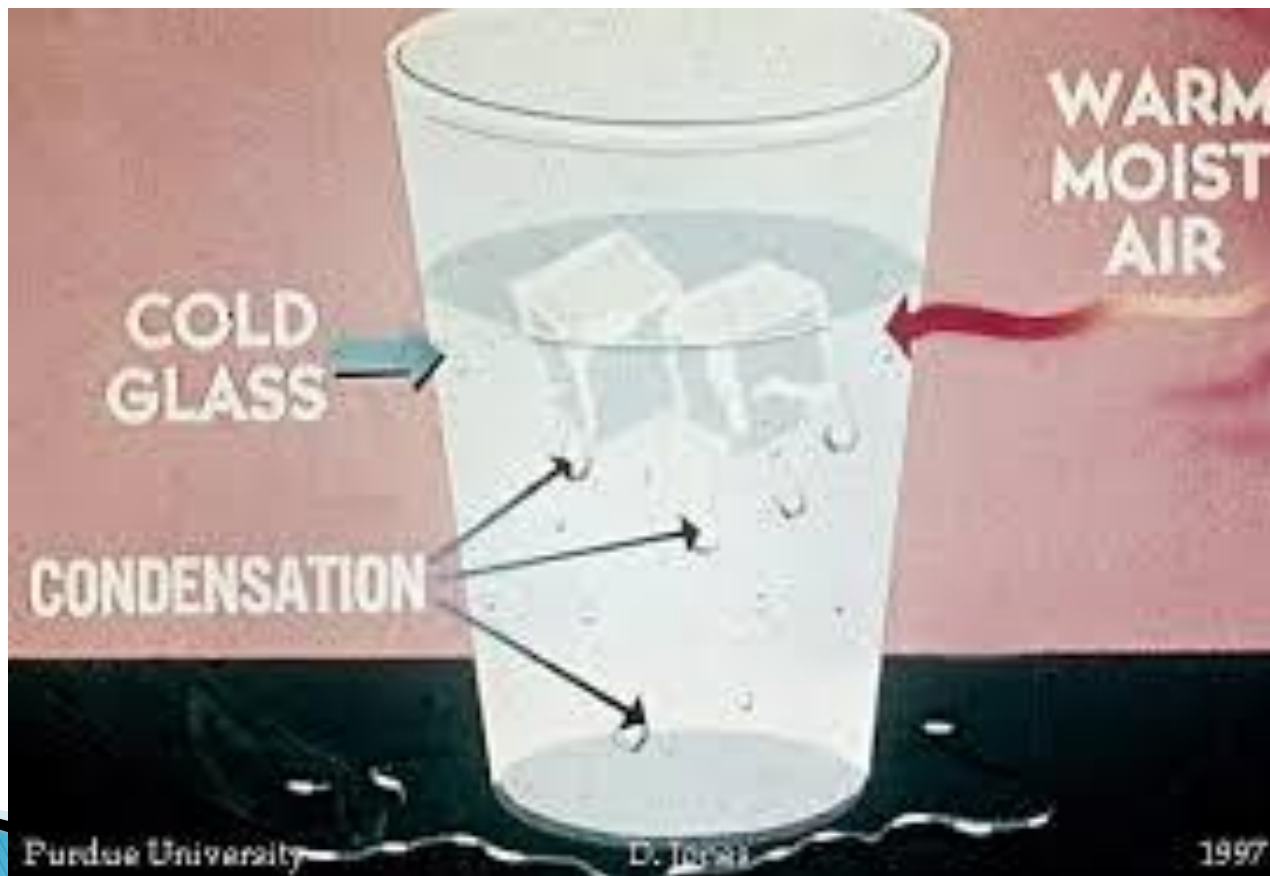
Boiling

- ▶ Vaporization that occurs throughout a liquid



Condensation

- ▶ Change from a Gas to a Liquid



Sublimation

- ▶ Change from a Solid to a Gas (Without becoming a liquid)

