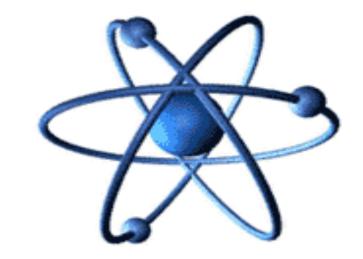
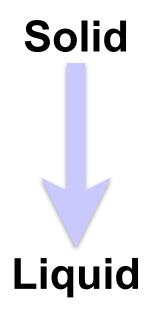
Thermal Energy and Heat

Changes of State







Gas





Fusion (melting) – when a solid turns into a liquid (because the particles gain energy and move faster)



Solid

Liquid







Evaporation – when a liquid turns into a gas (because the particles gain energy and move faster)



Solid

Liquid

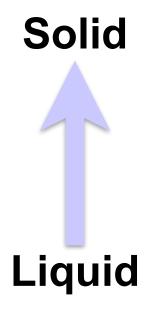




Condensation – when a gas turns into a liquid (because the particles slow down and lose/release energy)







Gas

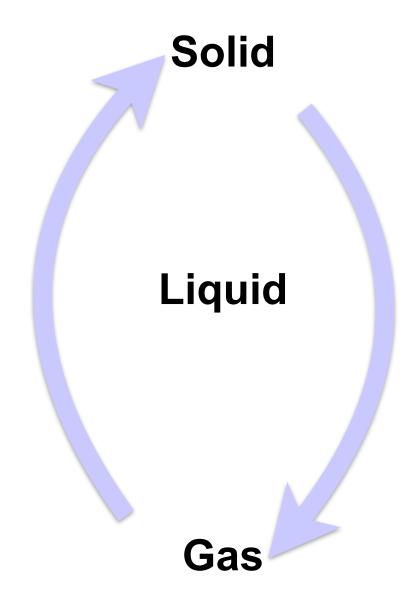


Solidification

(freezing) – when a liquid turns into a solid (because the particles slow down and lose/release energy)









Sublimation – when a gas turns into a solid or a solid turns into a gas without turning into a liquid.





Relate Changes of State to everyday life...

- "sweat" on cold drinks,
- snow melting,
- opening the freezer door and seeing "vapour",
- "vapour" from the river in the fall, etc.