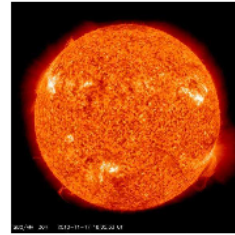
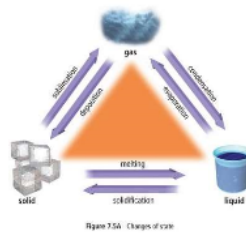


Name: \_\_\_\_\_

**SPH3U Unit 3: Energy****Unit Goal:** Rollercoasters, changes of state, and nuclear fusion

What it is:	<u>Rollercoaster:</u> ride that goes fast and changes height. <u>Change of state:</u> Solid $\rightarrow$ Liquid $\rightarrow$ Gas $\rightarrow$ Plasma <u>Nuclear Fusion:</u> when 2 small atoms combine into 1 larger atom.
What we want to do:	<u>Rollercoaster:</u> -speed -angles -how does it stay on the tracks? -friction -accel -height <u>Change of state:</u> -how fast -what state it's in -amount of energy -temperature. <u>Nuclear Fusion:</u> -how to fuse? -why? -how much energy?
What we already know:	-gravity -acceleration -force -Newton's laws -friction -net force
What we need to learn:	-energy - $E=mc^2$ -kinetic, potential -half-life -power -energy laws