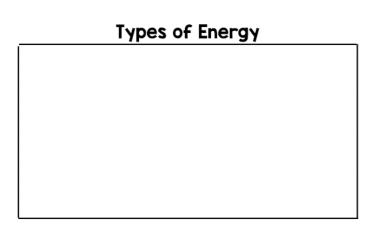
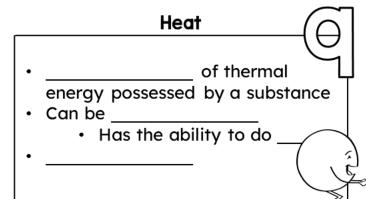
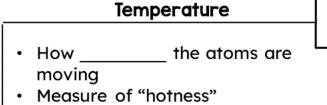
Thermochemistry

Thermochemistry is the study of ______during changes to a system.

What do we know about energy?



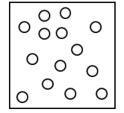


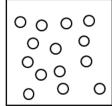


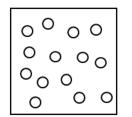
Average _____ energy

Molecular Motion & Heat Flow

HOT Water + Dye

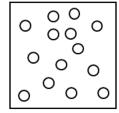


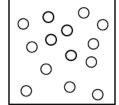


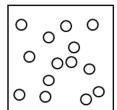


The hot water particles are moving very fast. They _____ often with the dye, which makes it ____ than the cold water.

COLD Water + Dye







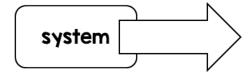
The cold water particles are slow. They
_____ often with the dye,
which makes it _____ than
the hot water.

_	s heat ferred?	Heat flows from areas of	energy from the (cooler) particles. thermal concentration thermal concentration (ı).
The Law of Conservation of Energy				
	Esyst	em = - E _{surr}	oundings	
	Energy ca	nnot be o	r	
		energy of the system , and vice versa.	, the energy of the	
	dothermic leat the • E _{system} • E _{surroundings}	_ • E _{sys}	ic the system tem roundings S	

Feels ______



Feels



Cold and hot are ______ terms.

So then... how does a thermometer work?



- 1. Fast moving particles _____ with the thermometer and _____ energy (heat)
- Particles in the thermometer move _____
 As the temperature increases, the _____ of the particles increases