

Name: _____
Blk: _____ Date: _____

Science 8 Notes: Thermal Energy vs Temperature

We must keep in mind the KMT when we are trying to understand the difference between _____ and _____.

RECALL:

Particles move _____ with more energy
Particles move _____ with less energy

To determine if an object is HOT or COLD we look at the movement of its
_____!!!

Thermal Energy:

- Is the _____ of the particles
(_____)
- The more _____ the greater the

- It depends on the _____ (size of the object) and the
_____ of the particles
- If the _____ of the object changes, so too does its

Temperature:

- Is the _____ of the particles
(_____)
- It is an _____ because not all _____ move
at the exact same _____.
- It depends on the _____ of the particles only
- If the _____ of the object changes, the
_____ DOES NOT!!!

HEAT TRANSFER

_____ is the _____ from an object at a _____ temperature to one at a _____ temperature

HEAT WILL ONLY TRANSFER IF THERE IS A _____!

There are _____ of Heat Transfer:

1. _____ - is heat transfer in _____

Ex:

2. _____ - is heat transfer in _____

Ex:

3. _____ - is heat transfer in a _____

Ex:

TEMPERATURE vs THERMAL ENERGY EXAMPLE

 A

 B

 C

Compare the above diagrams and state which has the greater thermal energy? Explain why.

1. A or B?

2. A or C?

3. B or C?