

## Thermal Energy Vocabulary

1. heat energy – the movement or transfer of thermal energy from one object to another when the objects are at different temperatures
2. thermal energy – total kinetic energy contained in all the particles of a substance (synonym for heat energy)
3. conductor – matter that will allow energy to flow through easily
4. insulator – matter that **will not** allow energy to flow easily
5. reduce – to lower the amount
6. increase – to make greater or raise the amount
7. decrease – to go down in amount
8. freezing – the temperature at which a substance changes from a liquid to a solid (it begins at 0° Celsius for water and continues as the temperature decreases)
9. melting – the temperature at which a substance changes from a solid to a liquid (it begins at 0° Celsius for water and continues as the temperature increases)
10. boiling – the temperature at which a substance changes from a liquid to a gas (it begins at 100° Celsius for water and continues as the temperature increases)
11. temperature – the average speed of the particles in a substance (also the measure of the average kinetic energy in a substance)

12. *Celsius thermometer* – a tool used to measure the temperature in degrees Celsius