

# Matter & Energy Unit 2 Study Guide

What is the difference between heat and temperature?

- a. Heat is a transfer of energy between objects at different temperatures, which causes the temperature of both objects to change. Temperature is a property of a substance.

What is convection? Give an example.

- a. Convection is the transfer of energy as heat by movement of liquid or gas.  
An example is how it is warmer by the ceiling compared to the floor.

What is conduction? Give an example.

- a. Conduction takes place when energy is transferred from one particle to another without the movement of matter.  
An example when you hold a pan by its handle over a fire and your hand is warmed by the heat from the handle of the pan.

What two units are used to measure heat?

- a. Calorie and joule

What is thermal energy? Why would one substance have more thermal energy if two substances are at the same temperature?

- a. Thermal energy is the total kinetic energy of all particles in a substance. The larger the amount of liquid the more thermal energy it produces even if they are the same temperature.

What is the relationship between calories and temperature?

- a. 1 calorie is the amount of energy needed to raise the temperature of 1 gram of water by 1 degree Celsius; therefore, 100 calories are needed to raise the temperature of 10 grams of water by 10 degrees Celsius.

What is an insulator? Give an example of an insulator.

- a. An insulator is a material that is a poor conductor of heat.  
Plastic, wood, paper, cloth are insulators, or poor conductors of energy as heat.

What tool is used to measure temperature?

- a. Thermometer

What is the freezing/melting point of water in Celsius and what is the boiling point of water in Celsius?

- a. The freezing/melting point of water is 0 °C and the boiling point of water is 100 °C.

What is the relationship between temperature and movement of particles?

- a. The warmer the temperature the quicker the particles move. The cooler the temperature the slower the particles move.

# Study Guide Matter And Temperature

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