

**Study guide given December 4, 2017**

**Test Date: Dec 8, 2017**

**EQ: How is thermal energy used?**

**GSE: S3P1**

**Friction** – A force between two moving objects that slows objects and produces heat. (p. 178)

**Thermal energy** – the form of energy that moves particles of matter. (p. 156)

**Celsius** – the metric scale for measuring temperature that is used most often in science. (p. 155)

**Heat** – the movement of thermal energy from hotter to colder things. (p. 156)

**Conductor** – an object that heat can move through easily. (Examples are metal iron, or copper). (p. 167)

**Insulator** – an object that doesn't conduct heat well. (Examples are wood, cloth, or plastic). (p. 168)

Many appliances in our homes use **electricity** to produce thermal energy. Examples are irons, electric blankets, and hair dryers. (p. 179 and 180)

Thermal energy can be produced by mixing **chemicals**. Vinegar and baking soda will produce heat when they are mixed together. (p. 179)

People use thermal energy to cook food. Some stoves and ovens use **natural gas and propane** to produce heat that cooks our food. (p. 180)

Your body produces its own thermal energy so your body temperature stays near **98.6 F**. (p. 180)

**\*\*Remember, for homework you can copy your study guide for extra points. This is not mandatory but is my way to help you learn your vocabulary each week and earn points while you're doing it.**