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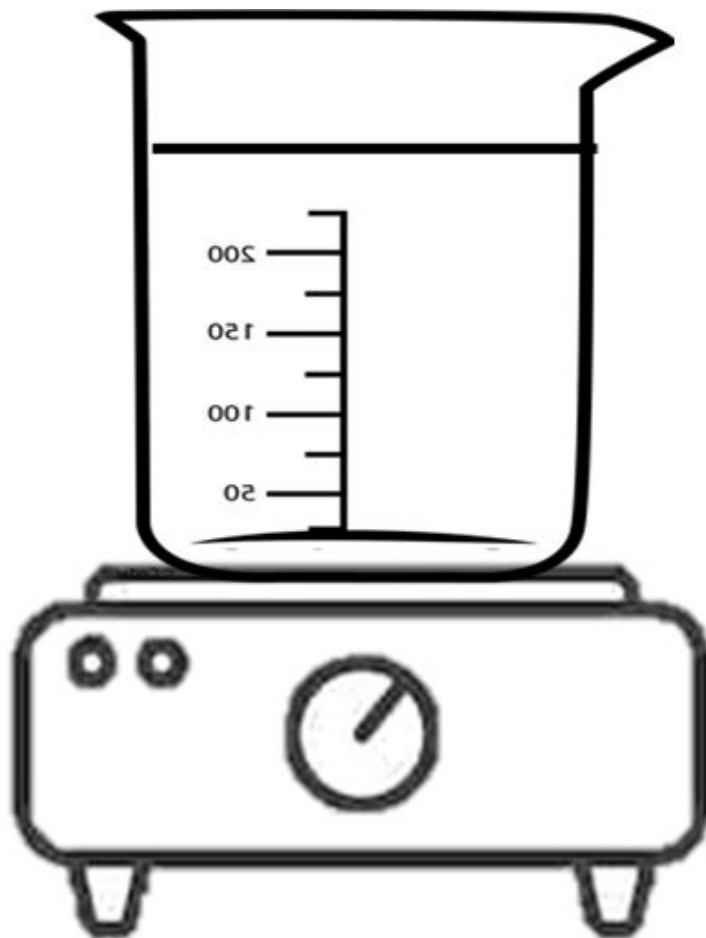
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Unit 2, Section 1 - Energy Transfer and Forms of Energy

Energy Transfer:

_____ is the process in which energy is transferred from object to another. This process can be broken down into three different methods: conduction, convection, and radiation. _____ is the first method of which energy is directly transferred from one object to another. The second method, _____, is when energy is transferred due to the presence and movement of fluids or gases. The third method, _____, is the process in which energy is transferred through waves, or more specifically electromagnetic waves. It is important to note that this method of energy transfer _____ require the objects to be in direct contact.

Label and color the diagram below to show conduction, convection, and radiation:



Types of Energy:

Kinetic Energy	Potential Energy

Forms of Energy:

Energy Form	Type of Energy (Kinetic or Potential)	Description

Practice:

Identify the type of heat transfer as conduction(CD), convection(CV), or radiation(R):

_____ The heat you feel from a fireplace

_____ Moves as a wave

_____ Transfer through solids

_____ Moves as a current

_____ A pan heating on a hot stove

_____ Sun rays on Earth

Match the form of energy with its definition.

1. _____ Heat

A. Energy of an atom being split or fused

2. _____ Nuclear

B. Energy of moving electrons (charged particles)

3. _____ Radiant

C. Energy of motion

4. _____ Mechanical

D. Light energy - electromagnetic radiation

5. _____ Chemical

E. Energy (kinetic or potential) of **moving** objects

6. _____ Electrical

F. Energy of bonds in molecules and compounds

7. _____ Potential

G. Stored energy

8. _____ Kinetic

H. Thermal energy - motion of molecules