

- To do work you need **energy**
- Law of Conservation of energy. Energy can't be **created** it can't be **destroyed** it can only be **changed** or **transformed** from one version to another.
- If a lightning strike has 500 J of electrical energy, and it produces 300 J of light energy and 100 Joules of heat energy, how much sound energy did it produce? **100 J**
 - Show work: **$300\text{ J} + 100\text{ J} + 100\text{ J} = 500\text{ J}$**
- Mechanical** Energy is associated with position and movement of an object/
- Position = **Potential** energy
- Movement = **kinetic** energy
- Kinetic Energy + Potential Energy = Mechanical Energy**
- Potential Energy** is stored energy that has to do with an object's position or shape.
- Kinetic Energy** is the energy an object has due to its motion.
- Show the maximum kinetic and potential in a pendulum.
- Why do you go faster down a hill when you start from higher up? Explain: **higher up = more potential energy**
- Chemical** energy is the energy stored in the bonds of chemicals.
- What are our 3 main examples? **Batteries, Fuel, Food**
- Nuclear** energy is the energy stored within the nucleus of atoms. **Very** powerful!
- Light** energy is the movement of energy by photons. It's two other names are **solar** and **radiant**.
- Electrical** energy is the movement of charged particles like **electrons** or **protons** flowing in a current.
- Sound** is the energy produced when a substance vibrates. Basically it occurs when air particles **bump** into each other! It moves in a **wave** format.
- Thermal** energy is when particles are vibrating SUPER FAST and bump into another substance. It's also known as **Heat** energy
- Heat is the **transfer of energy** from something hot to something cold. When something is hot, it has lots of **kinetic** energy. The atoms of the object will be **vibrating quickly**.
- Conduction** is heat transfer between stationary objects or simply the movement of heat in a **solid**
- Conductors** move heat very well like: **metals**
- Insulators** moves heat poorly like: **fabric, plastic**
- Convection** is heat transfer due to the rise and movement of the atoms in a liquid or a gas.
- They tend to move in **circles** called: **Convection currents**
- Radiation** is heat transfer by light (otherwise known as **photons**) moves in **all** directions!



Name the type of energy:

Rolling ball **kinetic**, Spring **potential**, Lightning **electrical**, Light Bulb **light**, Stove **thermal**, Headphones **sound**, Screaming **sound**, Rock on a Ledge **gravitational**, Uranium **nuclear**, Bow and Arrow **elastic**, Cycling **mechanical**

Give the TRANSFORMATION of energy:

Heat Transformations Study Guide

Siddappa N.Byrareddy



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