

Energy and Change

Grade 7 General Science

Study Guide - Year 8

Renewable and Non-Renewable Sources of Energy

Energy needed to make something work, move, or live. It can be stored or used to make something happen.

Non-Renewable Sources

- Derived from geological resources
- Examples: fossil fuels (oil, natural gas and nuclear fuels (uranium))

Renewable Sources

- Continuously replenished
- Examples: hydroelectric, wind, sunlight, tidal (ocean)



Kinetic Energy

Kinetic Energy: Energy a body has when it is moving.

- Examples: bullet fired, moving ball, weight falling, wind blowing, water falling, vehicle moving, current (energy through a circuit)

Potential Energy

Potential Energy: Energy that is stored in a system.

- Examples: stretched rubber band, weight raised in a table, a ball (battery), fuel, coal, food
- Energy that is stored in a place (J)

Potential and Kinetic Energy in Systems

Two types of energy are involved in:

- Mechanical Systems: Both moving and interacting
- Thermal (Heating) Systems: Energy transferred as heat
- Electrical Systems: Current Energy in a circuit
- Biological Systems: Energy is just used by living organisms



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Law of Conservation of Energy

The amount is conserved but can be converted from one

and another a system or from one system to another (mechanical system is a prime)

Energy as a Form of Energy

Energy (from a better body, from a worse body, and back to

Energy between solid objects in direct contact

Energy through the movement of fluids in gases

Energy without physical contact or movement of particles

Conduction

Transfer of heat through the movement of fluid (liquid or gas) particles

- Conduction (contact): Heat is transferred through direct contact between two objects



Radiation

Transfer of heat without the need for physical contact

- Reflective: Energy reflects (eg. direct reflected heat)
- Absorptive: Heat reflects (eg. heat, direct heat)



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Light and Sound Energy

Light or gas
heating
heating
heating
heating
heating

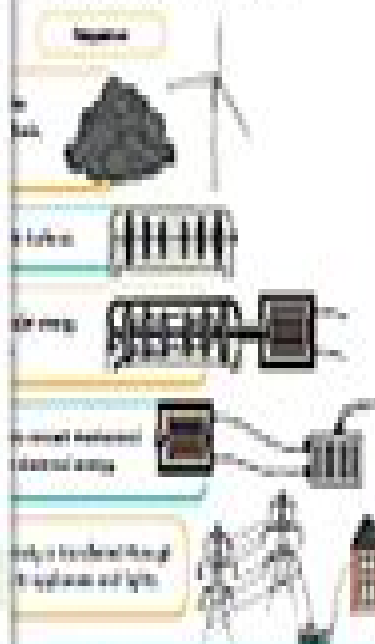
• Light Energy: Energy required that performs the function of heating

• Mechanical Energy: Energy that originates in the surroundings, often in heat or sound

- Examples: Sound is a vibration (S.E. heating in heat)

Energy Transfer in the Natural World

It is a system (energy) that supplies electricity



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It is a system (energy) that supplies electricity

Energy Transfer in the Natural World

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