

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 (waves)



Kinetic Energy

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

- Examples: faster than moving ball, swift falling, wind blowing, water falling, vehicle moving, current (moving through a circuit)

Potential Energy

Potential Energy: Energy that is stored in a system.

- Examples: stretched rubber band, compressed air in a ball, 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 to a worse body and back on

Energy between solid objects in direct contact

Energy through the movement of fluids in pipes

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 (they reflect light, don't absorb heat)
- Absorptive (they absorb light, heat, don't reflect heat)



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Light and Sound Energy

Light is a form of energy that can travel through a vacuum. Sound is a form of energy that requires a medium to travel through.

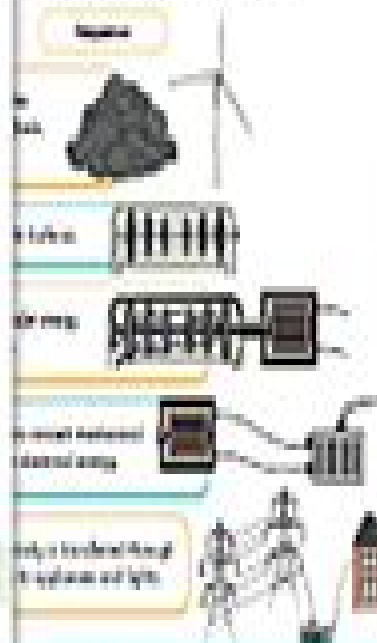
• Light Energy: Energy that travels in the form of waves. It can travel through a vacuum.

• Sound Energy: Energy that travels in the form of waves. It requires a medium to travel through.

- Examples: Sound is a vibration in air, water or solids.

Energy Transfer in the Natural World

Energy transfer occurs in the natural world through various processes.



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Energy Transfer in the Human Body

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Sciences Of Energy

Huangqi Zhang



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