

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: 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 or a medium (solid)



Radiation

Transfer of heat without the need for physical contact

- Reflective (they reflect (eg. steel) reflect heat)
- Absorptive (they absorb (eg. black) absorb 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.

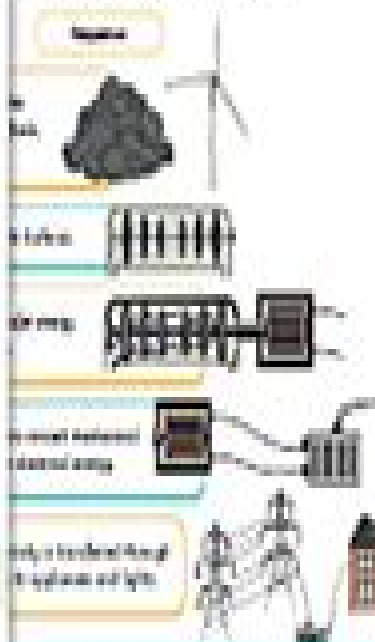
• Light Energy: Energy that travels in the form of waves.

• Sound Energy: Energy that travels in the form of waves, often in a liquid or solid.

- Examples: Sound is a wave that travels through a medium.

Energy Transfer in the Natural World

Energy is transferred from one system to another.



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Energy is transferred from one system to another. For example, a person's body transfers energy from food to mechanical energy to do work.

Energy Transfer in the Human Body

Energy is transferred from one system to another.

Energy is transferred from one system to another. For example, a person's body transfers energy from food to mechanical energy to do work.

Energy is transferred from one system to another. For example, a person's body transfers energy from food to mechanical energy to do work.



Sciences Of Energy

**United States. Congress. House.
Committee on Appropriations.
Subcommittee on Energy and Water
Development**

Sciences Of Energy:

The Science of Energy Roger G. Newton, 2012 This book aims to describe the scientific concepts of energy Accessible to readers with no scientific education beyond high school chemistry it starts with the basic notion of energy and the fundamental laws that govern it such as conservation and explains the various forms of energy such as electrical chemical and nuclear It then proceeds to describe ways in which energy is stored for very long times in the various fossil fuels petroleum gas coal as well as for short times flywheels pumped storage batteries fuel cells liquid hydrogen The book also discusses the modes of transport of energy especially those of electrical energy via lasers and transmission lines as well as why the latter uses alternating current at high voltages The altered view of energy introduced by quantum mechanics is also discussed as well as how almost all the Earth s energy originates from the Sun Finally the history of the forms of energy in the course of development of the universe is described and how this form changed from pure radiation in the aftermath of the Big Bang to the creation of all the chemical elements in the world Making Sense of Science: Energy Kirsten R.

Daehler, Jennifer Folsom, Mayumi Shinohara, 2011 This comprehensive professional development course for grades 6 8 science teachers provides all the necessary ingredients for building a scientific way of thinking in teachers and students focusing on science content inquiry and literacy Teachers who participate in this course learn to facilitate hands on science lessons support evidence based discussions and develop students academic language and reading and writing skills in science along with the habits of mind necessary for sense making and scientific reasoning Energy for Teachers of Grades 6 8 consists of five core sessions Session 1 What is Energy Session 2 Potential Energy Session 3 Heat Energy Session 4 Conservation of Energy Session 5 Energy in Ecosystems The materials include everything needed to effectively lead this course with ease Facilitator Guide with extensive support materials and detailed procedures that allow staff developers to successfully lead a course Teacher Book with teaching science and literacy investigations along with a follow up component Looking at Student Work designed to support ongoing professional learning communities CD with black line masters of all handouts and charts to support group discussion and sense making course participation certificates student work samples and other materials that can be reproduced for use with teachers Materials Sciences Programs United States.

Department of Energy. Division of Materials Sciences, 1991 **Budget for Fiscal Year 2009 for the Department of Energy** United States. Congress. Senate. Committee on Energy and Natural Resources, 2008 **Department of Energy Science and Technology Priorities** United States. Congress. House. Committee on Science, Space, and Technology (2011), United States. Congress. House. Committee on Science, Space, and Technology (2011-), 2013 **Energy and Water Development Appropriations for 2003: Secretary of Energy; Science, renewable energy, and nuclear energy** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2002 Energy Research Abstracts , 1991 Journal of the Optical Society of America and Review of Scientific Instruments , 1922

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