

LIGHT ENERGY

Name: _____ Date: _____

LIGHT ENERGY

Have you ever thought why the world around us is so colorful? Butterflies, flowers, green grasses and trees all around us. Do you know where all these colours come from? Why a rainbow has 7 colors? How does a mirror work? Actually! all of these happen because of different properties of light.

Light is a form of **energy**. It travels in waves called **Electromagnetic waves**. Light is the only electromagnetic wave we can see. There are others like X-rays, gamma rays and radio waves. We cannot see these other types. We can only see **Visible Light**. These waves have different wavelength which creates different colours. Why does a rainbow have 7 colors? Its because white light is made of 7 colours. When white sunlight hits water droplets in atmosphere, it splits into 7 colors.

Do you know how fast light can travel? In vacuum speed of light is 186000 miles per second. It means, light can travel 7 times around the Earth in 1 second. Speed of light is constant, means it never changes. Light does not need a medium to travel.

Some sources of light are Sun, bulb, LED, candles etc. Sun is the primary source of light on Earth. Most organisms depend on sunlight for their life. Plants need sunlight to make their food through a process called **photosynthesis**. And all the humans and animals depend on plants for their food. So we all need sunlight for our food.

Scientists have created solar panels to convert light energy into electricity. We study about light in a subject called **Physics**.

Light rays always travel in **straight line**. When light hits an object and bounces off, its called **Reflection**. We can see our image in a mirror because of Reflection. The Moon shines because it reflects sunlight. Sometimes light



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Choose the correct option:

- | | |
|---|--|
| Q.1 Light travels in a _____ line. | Q.2 Which of these can we see with our naked eyes? |
| a. Curved | a. X rays |
| b. Straight | b. Gamma rays |
| c. Square | c. Radio Waves |
| d. Circular | d. Visible Light |
| Q.3 When light rays bend while entering a different medium, its called _____. | Q.4 We can see our image in a mirror because of _____. |
| a. Refraction | a. Reflection |
| b. Reflection | b. Refraction |
| c. Scattering | c. Scattering |
| d. Visible light | d. Dispersion |

Q.5 When object

- a. Reflects
- b. Refracts
- c. Scatters
- d. Disperses

Mark as T

- 1. Light travels in a straight line.
- 2. The Moon shines because it reflects sunlight.
- 3. Solar Panel converts light energy into electricity.
- 4. In a mirror

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1. Give examples of three types of Electromagnetic waves.
2. Write any 3 colors that appear in a rainbow.
3. Write names of any three sources of light.
4. The Moon does not have its own light, so how does the moon shine at night?
5. There is no air in a room. Do you think light can travel in that room?
6. How do we depend on sunlight for our food? Explain.
7. We can see our image in a mirror. This is because of which property of light?
8. Draw a simple diagram to show what will happen when you shine a torch on a mirror. Show in which direction will the light reflect?

Energy Comprehension

Sidney Armor Reeve



Energy Comprehension:

Foundations of Energy Risk Management GARP (Global Association of Risk Professionals), 2008-11-10 GARP's Fundamentals of Energy Risk Management introduces investors to the basic components and some of the basic terminology used in the energy industry. It covers the commodity cycle, energy use and sources, and various risk types, various energy products, and the markets where energy is traded. It also introduces certain risk management fundamentals and real option thinking. The book is GARP's required text used by risk professionals looking to obtain their Certificate in Energy Risk Management.

Biology Sandra Alters, 2000. Designed for a one or two semester non-majors course in introductory biology taught at most two and four year colleges. This course typically fulfills a general education requirement and rather than emphasizing mastery of technical topics, it focuses on the understanding of biological ideas and concepts, how they relate to real life, and appreciating the scientific methods and thought processes. Given the author's work in and dedication to science education, this text's writing style, pedagogy, and integrated support package are all based on classroom-tested teaching strategies and learning theory. The result is a learning program that enhances the effectiveness/efficiency of the teaching and learning experience in the introductory biology course like no other before it.

Air Force Energy Plan, 1986 **Essential Connections; the How and Why of Your Personal Energy** Felicity Rose Mackinnon, 2012. This is a book everyone needs to read: a whole new perspective on how and why the body's functions and its energy shape every aspect of your life.

Discovering Science Through Inquiry: Inquiry Handbook - Energy Kelli Allen, 2012-07-01. The Energy Inquiry Handbook is designed to guide students through exploration of scientific concepts and features background information for each topic, hands-on activities, experiments, and science journal pages. The various student activities and experiments are inquiry-based, student-focused, and directly related to the focus of lessons provided in the corresponding kit. Kit not included.

Energy and Water Development Appropriations for 1984: Department of Energy FY 1984 budget justifications United States Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 1983.

Energy Sidney Armor Reeve, 1909. *The Energy Resources of the United States* Chester G. Gilbert, Joseph Ezekiel Pogue, 1919. **The Energy of Living Protoplasm** Oscar Loew, 1896. **The Basis for Effective Management of Lighting Energy Symposium, October 29-30, 1976, Washington D.C.**, 1976. *The Origin and Economy of Energy in the Universe* Israel Kaufman, 1903.

Energy Samuel M. Dix, 1977. *The Hahnemannian Monthly*, 1917. **Wave Energy Utilization** H. Berge, Norges tekniske høgskole, 1982. **Matter, Energy, Force, and Work** Silas Whitcomb Holman, 1898. **Light Energy** Margaret Abigail Cleaves, 1904. **Matter, Electricity, Energy** Walther Gerlach, 1928. *Energy and Man* Columbia University Graduate School of Business, Allan Nevins, 1960. The Columbia University Graduate School of Business and the American Petroleum Institute collaborated in the preparation and presentation of the symposium in Nov 1959.

Thermodynamics and the Free Energy of Chemical Substances Gilbert Newton Lewis, Merle Randall, 1923. The scope of thermodynamics

Definitions the concept of equilibrium Conventions and mathematical methods Solutions The first law of thermodynamics and the concept of energy The fugacity Application of the second law to solutions The perfect solution The laws of the dilute solution Systems involving variables other than pressure temperature and composition A useful function called the activity and its application to solutions Change of activity with the temperature and the calculation of activity from freezing points The standard change of free energy the equilibrium constant Solutions of electrolytes The activity of strong electrolytes The activity of electrolytes from freezing point data and tables of activity coefficients Activity coefficient in mixed electrolytes the principle of the ionic strength the activity of individual ions The galvanic cell Single potentials standard electrode potentials of the elements The third law of thermodynamics The entropy of monatomic gases and a table of atomic entropies Introduction to systematic free energy calculations the free energy of elementary hydrogen and metallic hydrides Oxygen and its compounds with hydrogen and with some metals Chlorine and its compounds Bromine and its compounds Iodine and its compounds Nitrogen compounds Carbon and some of its compounds Compounds of carbon and nitrogen Table of free energies and examples illustrating its use Conversion table for mol fractions mol ratios and molities Some useful numerical factors Coefficients employed in converting activity equilibrium constant and free energy from one temperature to another Publications by the authrs pertaining to thermodynamics Teaming for Efficiency: Human and social dimensions of energy use : understanding markets and demand ,2002

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