

# FORMS of energy

## Gravitational Energy

Gravitational energy is the potential energy stored by an object because of its higher position compared to a lower position. Gravitational energy occurs and increases as an object or a system moves further from the center of the Earth. Gravitational energy is dependent on the masses of two bodies and their distance apart.



Gravitational potential energy is the energy a body possesses when something is in a higher position. The gravitational energy is higher than something lower as it has a further distance to fall.



Directions: Decide whether each statement is true or false.

- |   |      |       |
|---|------|-------|
| <input type="radio"/> Gravitational energy is dependent on the masses of two bodies and their distance apart. | True | False |
| <input type="radio"/> Earth has gravitational potential energy as it moves away from the sun.                 | True | False |
| <input type="radio"/> The higher something is the lower the gravitational energy.                             | True | False |

## Thermal Energy

Thermal energy is also known as heat energy. It is produced when there is a rise in temperature that causes atoms and molecules to move faster and collide with each other.



Thermal energy is produced by heated up substances which causes the faster the substance, the more its particles move, and the higher its thermal energy.

Directions: Circle the examples that represent thermal energy. There may be more than one answer.

- ☐ heat from a heater     ☐ solar radiation heating up the Earth's atmosphere  
☐ rubbing your hands together     ☐ light     ☐ melting ice-cream

Directions: Answer the questions below to check your knowledge.

- ☐ How is thermal energy produced?
- \_\_\_\_\_
- \_\_\_\_\_

## Radiant Energy

Radiant energy is a form of electromagnetic energy. It can take the form of visible waves, which is what we call light energy.

The sun produces a lot of radiant energy which is transmitted to Earth as light. Radiant energy that is transmitted by the electromagnetic waves comes in different forms.

All life on Earth is dependent on radiant energy from the sun. Radio waves, microwaves, x-rays and plant growth use radiant energy which is the movement of photons.

Here are some examples of radiant energy.



Directions: Decide if each statement is true or false.

- |   |      |       |
|---|------|-------|
| <input type="radio"/> All life on Earth is dependent on radiant energy. | True | False |
| <input type="radio"/> The sun produces radiant energy.                  | True | False |

## Light Energy

Light energy is a form of electromagnetic radiation of a wavelength. It can be seen by the human eye. It is a type of radiant energy.



In the electromagnetic spectrum, we can see that light has the wavelength visible to our eyes. Light energy is formed through the movement of photons. Photons are particles of light. When an object's atoms heat up, photons are produced from the movement of atoms. The hotter the object, the more photons are produced and that is how light energy is formed.

Light energy is used to help us see. The light can come naturally with the use of the sun or this but it can also be from man-made objects like candles or light bulbs.

Light energy is used by plants during photosynthesis. Plants capture the light energy from the sun and use it to produce their food.



### Electromagnetic Spectrum



## Chemical Energy

Chemical energy is stored in the bonds that connect atoms with other atoms and molecules with other molecules. Because chemical energy is stored, it is a form of potential energy.



When a chemical reaction takes place, the stored chemical energy is released. Chemical energy is the stored, usable energy in the world.

Chemical energy is the food that we eat and that energy keeps us warm, helps us move, and allows us to grow.

Stored chemical energy can also be found in coal, biomass, and batteries.



Biomass is the fuel developed from organic matter such as animal waste, plant waste, forest waste, and municipal waste. Biomass can be converted into fuel and used as an energy source.

Here are some examples of chemical energy.



## Chemical Energy

Directions: Answer each question to the best of your knowledge.

- ☐ Is chemical energy potential energy?
- ☐ What is biomass?
- ☐ Is chemical energy a renewable energy source?
- ☐ How can you use biomass?
- ☐ How can biomass be used as an energy source?
- ☐ What are some examples of chemical energy?



# Chapter 5 Overview Energy Worksheet Packet

**Puja Mehta**



## Chapter 5 Overview Energy Worksheet Packet:

Community Energy Workbook Alice Hubbard, Clay Fong, 1995      Energy Abstracts for Policy Analysis ,1977  
*Residential Manual for Compliance with Energy Efficiency Standards (other Than Apartment Houses with Four or [sic] More Habitable Stories and Hotels)* ,1991      The Utility Accounting Package ,1989      **Merrill Earth Science** Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995      **Resources in Education** ,1995      ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1977      *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977      Residential Manual ,1999  
Addison-Wesley Introduction to Physical Science Michael B. Leyden, 1988      Residential Steel Design and Construction John H. Hacker, Julie A. Gorges, 1998 Design and build energy efficient steel framed houses as a practical alternative to wood As high quality wood becomes scarcer and more expensive residential builders are turning to steel as the building material of choice Now you can improve your bottom line by learning to design and build steel framed residential structures that are energy efficient low in cost and easy to build Using examples from award winning houses this clear step by step guide provides everything a residential contractor needs to know to build a steel framed house quickly and easily You ll discover how to select the right materials and tools use energy efficient HVAC units appliances and lighting choose the best windows and doors and optimize landscaping and solar design The book will enable you to overcome steel s thermal deficiencies through proper design and insulation and surpass the energy efficiency of traditional building materials conduct your own Model Energy Code energy analysis for compliance with HUD regulations explore CABO and UBC approved steel framing details for a complete two bedroom house plan With lots of money saving tips on ordering and using proper building materials plus professional advice on applying traditional and new methods of interior and exterior insulation this is the most complete and practical resource available on a subject of increasing importance to residential builders and designers  
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