

# Science

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(Chapter - 5) (Physical and Chemical Changes)  
(Class - VII)

## Question 1:

Classify the changes involved in the following processes as physical or chemical changes:

- (a) Photosynthesis
- (b) Dissolving sugar in water
- (c) Burning of coal
- (d) Melting of wax
- (e) Beating Aluminium to make Aluminium foil
- (f) Digestion of food

### Answer 1:

Physical Changes:

(b) Dissolving sugar in water, (d) Melting of wax, (e) Beating Aluminium to make Aluminium foil.

Chemical Changes:

(a) Photosynthesis, (c) Burning of coal, (f) Digestion of food

## Question 2:

State whether the following statements are true or false. In case a statement is false, write the corrected statement in your notebook.

- (a) Cutting a log of wood into pieces is a chemical change. (True/False)
- (b) Formation of manure from leaves is a physical change. (True/False)
- (c) Iron pipes coated with zinc do not get rusted easily. (True/False)
- (d) Iron and rust are the same substances. (True/False)
- (e) Condensation of steam is not a chemical change. (True/False)

### Answer 2:

- (a) Cutting a log of wood into pieces is a chemical change. (False)
- (b) Formation of manure from leaves is a physical change. (False)
- (c) Iron pipes coated with zinc do not get rusted easily. (True)
- (d) Iron and rust are the same substances. (False)
- (e) Condensation of steam is not a chemical change. (True)

## Question 3:

Fill in the blanks in the following statements:

- (a) When carbon dioxide is passed through lime water, it turns milky due to the formation of \_\_\_\_\_.
- (b) The chemical name of baking soda is \_\_\_\_\_.
- (c) Two methods by which rusting of iron can be prevented are \_\_\_\_\_ and \_\_\_\_\_.
- (d) Changes in which only \_\_\_\_\_ properties of a substance change are called physical changes.
- (e) Changes in which new substances are formed are called \_\_\_\_\_ changes.

### Answer 3:

- (a) When carbon dioxide is passed through lime water, it turns milky due to the formation of *Calcium carbonate (CaCO<sub>3</sub>)*.
- (b) The chemical name of baking soda is *Sodium bicarbonate (NaHCO<sub>3</sub>)*.
- (c) Two methods by which rusting of iron can be prevented are *greasing* and *galvanization*.
- (d) Changes in which only *physical* properties of a substance change are called physical changes.
- (e) Changes in which new substances are formed are called *chemical* changes.

# Chapter 15 Physical Science Answers

**Tillery**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

## Chapter 15 Physical Science Answers:

**Glencoe Physical Science**, 1999     **Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science** Aron Thompson, 1999     Introduction to Physics and Chemistry Bill W. Tillery, 1992     *Everyday Physical Science Mysteries* Richard Konicek-Moran, 2013 What can make a ball roll faster Does the temperature of wood affect the heat of a fire How can old fashioned tin can telephones teach today's students about sound and technology By presenting everyday mysteries like these this book will motivate your students to carry out hands on science investigations and actually care about the results The 21 open ended mysteries focus exclusively on physical science including motion friction temperature forces and sound The stories come with lists of science concepts to explore grade appropriate strategies for using them and explanations of how the lessons align with national standards They also relieve you of the tiring work of designing inquiry lessons from scratch     **Study Guide to Accompany: Fundamentals of Physical Science Six Edition** Arthur Beiser, 1971     **Kant's Philosophy of Physical Science** Robert E. Butts, 2012-12-06 The papers in this volume are offered in celebration of the 200th anniversary of the publication of Immanuel Kant's *The Metaphysical Foundations of Natural Science* All of the essays including the Introduction save two were written especially for this volume Gernot Bohme's paper is an amended and enlarged version of one originally read in the series of lectures and colloquia in philosophy of science offered by Boston University My own paper is a revised and enlarged version with an appendix containing completely new material of one read at the biennial meeting of the Philosophy of Science Association held in Chicago in 1984 Why is it important to devote this attention to Kant's last published work in the philosophy of physics The excellent essays in the volume will answer the question I will provide some schematic comments designed to provide an image leading from the general question to its very specific answers Kant is best known for his monumental *Critique of Pure Reason* and for his writings in ethical theory His critical philosophy requires an initial sharp division of knowledge into its theoretical and practical parts Moral perfection of attempts to act out of duty is the aim of practical reason The aim of theoretical reason is to know the truth about material and spiritual nature     **The Climate Solutions Consensus** National Council for Science and the Environment, 2012-06-22 In 2007 the Intergovernmental Panel on Climate Change shared the 2007 Nobel Peace Prize with former Vice President Al Gore for its reporting on the human causes of climate change In 2008 the National Council for Science and the Environment reported that the acceleration of climate change is already faster than the IPCC projected only a year earlier How we deal with the rapid environmental changes and the human forces that are driving these changes will be among the defining issues of our generation *Climate Solutions Consensus* presents an agenda for America It is the first major consensus statement by the nation's leading scientists and it provides specific recommendations for federal policies for state and local governments for businesses and for colleges and universities that are preparing future generations who will be dealing with a radically changed climate The book draws upon the recommendations developed by

more than 1200 scientists educators and decision makers who participated in the National Council for Science and the Environment s 8th National Conference on Science Policy and the Environment After presenting a lucid narrative of the science behind climate change and its solutions Climate Solutions Consensus presents 35 practical results oriented approaches for minimizing climate change and its impacts It clearly spells out options for technological societal and policy actions And it deals head on with controversial topics including nuclear energy ocean fertilization and atmospheric geo engineering One of the book s key conclusions is that climate solutions are about much more than energy sources They involve re examining everything people do with an eye toward minimizing climate impacts This includes our eating habits consumption patterns transportation building and housing forestry land use education and more According to these scientists the time to act is now With clarity and urgency they tell us exactly what needs to be done to start reversing the driving factors behind climate change minimizing their consequences and adapting to what is beyond our power to stop **Focus**

**on Physical Science** Annette Miele Saturnelli,1989 **The Chemical News and Journal of Physical Science** ,1907

*The GED For Dummies*® Murray Shukyn,Dale E. Shuttleworth,2010-04-20 Get the skills and know how you need to pass the GED test Earning a GED can provide you with an advantage over other job and education candidates and the confidence to take the next step The GED For Dummies 2nd Edition gives you fresh and relevant example questions from the GED and even more hands on training in each of the 5 subject areas to help you maximize your success and earn a passing score Features 2 full practice tests in each of the 5 subject areas with detailed walk throughs and explanations for every solution Offers advice on test preparation from registering and studying effectively to managing your time during the exam Improve your job and education prospects now by studying for the GED with this easy to follow proven guide **GED DeMYSTiFieD**

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