

# Science

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(Chapter – 1) (Matter in Our Surroundings) (Intext)

(Class – IX)

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## Question 1:

Which of the following are matter?

Chair, air, love, smell, hate, almonds, thought, cold, cold drink, smell of perfume.

### Answer 1:

Anything that occupies space and has mass is called matter. Matter can exist in three physical states—solid, liquid, and gaseous.

Chair and almond are forms of matter in the solid state.

Cold drink is a liquid state of matter.

Air and smell of perfume are gaseous states of matter.

Note: The sense of smell is not matter. However, the smell or odour of a substance is classified as matter. The smell of any substance (say, perfume) is the gaseous form of that substance which our olfactory system can detect (even at very low concentrations). Hence, smell of perfume is matter.

## Question 2:

Give reasons for the following observation:

The smell of hot sizzling food reaches you several metres away, but to get the smell from cold food you have to go close.

### Answer 2:

Solids diffuse at a very slow rate. But, if the temperature of the solid is increased, then the rate of diffusion of the solid particles into air increases. This is due to an increase in the kinetic energy of solid particles. Hence, the smell of hot sizzling food reaches us even at a distance, but to get the smell from cold food we have to go close.

## Question 3:

A diver is able to cut through water in a swimming pool. Which property of matter does this observation show?

### Answer 3:

The ability of a diver to cut through water in a swimming pool shows that matter is made up of particles.

## Question 4:

What are the characteristics of particles of matter?

### Answer 4:

The characteristics of particles of matter are:

- > Particles of matter have spaces between them.
- > Particles of matter are continuously moving.
- > Particles of matter attract each other.

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## Question 1:

The mass per unit volume of a substance is called density. (Density = mass/volume). Arrange the following in order of increasing density – air, exhaust from chimneys, honey, water, chalk, cotton and iron.

### Answer 1:

The given substances in the increasing order of their densities can be represented as: Air < Exhaust from chimney < Cotton < Water < Honey < Chalk < Iron

# Physical Science Chapter 1

**KJ Lindholm-Leary**



## Physical Science Chapter 1:

*Introduction to Physical Science Chapter 1 Nature of Science Chp Res 634 2002* McGraw-Hill Staff,2001-08-01 **Holt Science Spectrum Physical Science Chapter 1 Resource File: Introduction to Science** Holt Rinehart & Winston,2008

**Physical Science** Russell Kuhtz,2016-12-09 *Physical science* Jay M. Pasachoff,LeVon Balzer,Phyllis L. Goodson,Ann Collins,1983 **Physical Science - Chemistry Split with Online Learning Center Password Card (Chapters 1 And 8 - 13)** Bill W. Tillery,Tillery Bill,2004-01-09 *Introduction to Physical Science* Alfred Payson Gage,1902 Physics chemistry textbook authorized for use in Saskatchewan schools 1895 1907 Langley s thesis Tables 9 10 11 With brief preface on methods of teaching elementary physics Has chapters on fluid pressure dynamics heat sound light electrostatics and electro kinetics **Complete Homeschool Social Science** Terri Raymond,2015-03-05 This book is a collection of Home School Brews bestselling social science series It covers grades 1 to 6 Each book may also be purchased separately Émilie Du Châtelet and the Foundations of Physical Science Katherine Brading,2019-01-15 The centerpiece of milie Du Ch telet s philosophy of science is her Foundations of Physics first published in 1740 The Foundations contains epistemology metaphysics methodology mechanics and physics including such pressing issues of the time as whether there are atoms the appropriate roles of God and of hypotheses in scientific theorizing how if at all bodies are capable of acting on one another and whether gravity is an action at a distance force Du Ch telet sought to resolve these issues within a single philosophical framework that builds on her critique and appraisal of all the leading alternatives Cartesian Newtonian Leibnizian and so forth of the period The text is remarkable for being the first to attempt such a synthetic project and even more so for the accessibility and clarity of the writing This book argues that Du Ch telet put her finger on the central problems that lay at the intersection of physics and metaphysics at the time and tackled them drawing on the most up to date resources available It will be a useful source for students and scholars interested in the history and philosophy of science and in the impact of women philosophers in the early modern period *An Introduction to Physical Science* Frederick Hutton Getman,1909

**The Grammar of Science** Karl Pearson,1911 **A Text-book of Physics** William Watson,1899 **Gaither's Dictionary of Scientific Quotations** Carl C. Gaither,Alma E. Cavazos-Gaither,2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various

thematic arrangements and also provides new thematic categories      **Physics for College Students** Ansel Alphonso Knowlton,1928      Hybrid Epistemology as a Solution to Reductionism-Physicalism Issues Philippos Afxentiou,2024-05-24

This book provides an introspection into overlooked aspects of physical science overrated standards an Aristotelian perspective and underappreciated paradigms Combining two works it explores physical science describing the world scientifically and consistently through two themes First it shows that while an experimental hypothesis approach succeeds due to the availability of the physical world other strategies exist The author proposes one approach focused on physical science s extreme prioritization of certain goals which may limit its exploration Some overlooked ideas are thoroughly detailed Second it re examines Aristotelian physics contrasting it with modern science and analyzing its wholesale replacement Beyond just comparing it identifies Aristotelian virtues citing recent supporting works It illustrates an unfinished pre modern science paradigm Overall readers gain a complete understanding of the hard science paradigm including its hidden assumptions exaggerations evolutionary myths and options for innovation The study sheds new light on hard science s modern pre eminence grounding analysis in principles not achievements This clarifies physical studies roots each paradigm s exaggerations and oversimplifications allowing new approaches      *The Chemical News and Journal of Physical Science* ,1907      **The Changeful Earth** Grenville Arthur James Cole,1911      **Focus on physical science** Charles H. Heimler,1989      Bulletin ,1920      Sessional Papers British Columbia. Parliament,1919      **Chemical News and Journal of Physical Science** ,1908

## Reviewing **Physical Science Chapter 1**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Physical Science Chapter 1**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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