

PHYSICAL SCIENCE: Molecular Theory

Learning Objectives

- 1) Students should be able to describe the particles of matter (atoms, molecules) and their arrangement in solids, liquids and gases and explain the properties of the matter on the basis of molecular theory.
- 2) Students should be able to explain the properties of matter on the basis of molecular theory.

Module 1: Representation of states in Different Phases

The following figure shows the representation of particles in three different states of matter.



Figure 1: Representation of particles in different states of matter

Students should be able to explain the properties of matter on the basis of molecular theory. Students should be able to explain the properties of matter on the basis of molecular theory.

Key Concepts

1. Matter is made up of tiny particles (atoms and molecules) which are present in all states of matter. The particles of matter are present in all states of matter. The particles of matter are present in all states of matter.

Table 1: Representation of particles in different states of matter

	Solid state	Liquid state	Gaseous state
Arrangement of particles	Particles are packed closely together in a regular arrangement. The particles are packed closely together in a regular arrangement.	Particles are packed closely together in a disordered arrangement. The particles are packed closely together in a disordered arrangement.	Particles are far apart from each other and move randomly in all directions. The particles are far apart from each other and move randomly in all directions.
Arrangement of particles in different states of matter	Particles are packed closely together in a regular arrangement. The particles are packed closely together in a regular arrangement.	Particles are packed closely together in a disordered arrangement. The particles are packed closely together in a disordered arrangement.	Particles are far apart from each other and move randomly in all directions. The particles are far apart from each other and move randomly in all directions.

Lw 1 Pogil Kinetic Molecular Theory Key

**John Dalton, Amedeo Avogadro, Joseph
Louis Gay-Lussac**



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Molecules and the Molecular Theory of Matter Allan Douglas Risteen, 1895 **Applications of the Kinetic Theory to Gases, Vapors, Pure Liquids, and the Theory of Solutions** William Pingry Boynton, 1904 **Kinetic Molecular Theory** Charles Proteus Steinmetz, American Electrochemical Society. Meeting, 1908* **An Introduction to Molecular Kinetic Theory** Joel Henry Hildebrand, 1963 **Foundations of the Molecular Theory** John Dalton, Amedeo Avogadro, Joseph Louis Gay-Lussac, 1911 Kinetic Theory, 1923 Volume 1 **Kinetic Theory** S. G. Brush, 2016-07-04

Kinetic Theory Volume I The Nature of Gases and of Heat deals with kinetic theory and the nature of gases and heat A comprehensive account of the life works and historical environment of a number of scientists such as Robert Boyle and Hermann von Helmholtz is presented This volume is comprised of 11 chapters and begins with an overview of the caloric theory the principle of conservation of energy the virial theorem and atomic magnitudes The discussion then turns to the qualitative atomic theory of the spring of the air proposed by Robert Boyle Isaac Newton's repulsion theory Daniel Bernoulli's theory on the properties and motions of elastic fluids especially air and George Gregory's theory on the existence of fire Subsequent chapters focus on Robert Mayer's theory on the forces of inorganic nature James Joule's theory on matter living force and heat Hermann von Helmholtz's theory on the conservation of force and Rudolf Clausius's theory on the nature of heat James Clerk Maxwell's dynamical theory of gases is also examined This book is written primarily for students and research workers in physics as well as for historians of science **The Molecular Theory of Gases and Liquids** Joseph O. Hirschfelder, Charles F. Curtiss, R. Byron Bird, 1964-01-15 An essential cross disciplinary reference for molecular interactions Molecular Theory of Gases and Liquids offers a rigorous comprehensive treatment of molecular characteristics and behaviors in the gaseous and fluid states A unique cross disciplinary approach provides useful insight for students of chemistry chemical engineering fluid dynamics and a variety of related fields with thorough derivations and in depth explanations throughout Appropriate for graduate students and working scientists alike this book details advanced concepts without sacrificing depth of coverage or technical detail **Foundations of the Molecular Theory**, 1893 **Foundations of the Molecular Theory** John Dalton, Joseph Louis Gay-Lussac, Amedeo Avogadro, 1950 *Foundations of the Molecular Theory*, 1899 **Foundations of Molecular Theory, Comprising Papers and Extracts** John Dalton, Joseph Louis Gay-Lussac, Amedeo Avogadro, 1961 Kinetic Theory J.M Pendlebury, 1985-09-01 The theory of the motions of atoms and molecules in a fluid provides the key to understanding thermodynamics yet many students find difficulty in evaluating and using the basic expressions of kinetic theory This book is designed to lead such students through the fundamental assumptions underlying the theory and to build up a clear physical understanding of the distribution of molecular speeds within a gas The bulk of the text outlines the relationship between molecular motions and the macroscopic properties of gases including the equation of state for a perfect gas and for a van der Waals gas and derives a variety of transport

coefficients and thermodynamics relations **Molecules and the Molecular Theory of Matter (Classic Reprint)** A. D. Risteen, 2017-09-12 Excerpt from *Molecules and the Molecular Theory of Matter* Throughout this volume I have considered molecules in their physical aspect There are numerous excellent works that discuss the chemical aspect of the molecular theory satisfactorily of which the following may be particularly recommended Meyer s *Modern Theories of Chemistry* Remsen s *Theoretical Chemistry* Ostwald s *Outlines of General Chemistry* and Mendeleieff s *Principles of Chemistry* About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *Foundations of the Molecular Theory*, 1902 **Kinetic Theory of Bimolecular Chemical Reaction, Diffusive Drag, and Other Processes in a Gas Mixture** Richard A. Hord, 1967 *The Molecular Theory of Solutions* Ilya Prigogine, 1957 **Foundations of the Molecular Theory** John Dalton, 1961 **The Molecular Theory of Solutions** I. Prigogine, 2003-01 **Molecular Theory of Gases and Liquids** Joseph Oakland Hirschfelder, 2003-01

Reviewing **Lw 1 Pogil Kinetic Molecular Theory Key**: 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 really astonishing. Within the pages of "**Lw 1 Pogil Kinetic Molecular Theory Key**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve 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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