

## Chapter 13 States Of Matter Quiz

Chapter 13 States Of Matter Quiz Chapter 13 States of Matter Quiz Instructions Choose the best answer for each question You may use your notes and textbook Multiple Choice 1 point each 1 What is the state of matter that has a definite shape and volume a Solid b Liquid c Gas d Plasma 2 Which state of matter is characterized by particles that are closely packed and vibrating in fixed positions a Solid b Liquid c Gas d Plasma 3 What is the process called when a liquid changes into a gas a Freezing b Melting c Vaporization d Condensation 4 Which of the following properties is NOT a characteristic of a liquid a Definite volume b Definite shape c Ability to flow d Takes the shape of its container 5 What is the state of matter that exists at extremely high temperatures and is composed of ionized particles 2 a Solid b Liquid c Gas d Plasma 6 Which of the following is an example of a physical change a Burning wood b Baking a cake c Melting ice d Rusting iron 7 What is the process called when a gas changes directly into a solid a Sublimation b Deposition c Freezing d Condensation 8 Which of the following factors affects the rate of evaporation a Temperature b Surface area c Wind speed d All of the above 9 What is the term used to describe the pressure exerted by the atmosphere a Air pressure b Barometric pressure c Atmospheric pressure d All of the above 10 What is the relationship between temperature and the kinetic energy of particles a As temperature increases kinetic energy decreases b As temperature decreases kinetic energy increases c As temperature increases kinetic energy increases d Temperature and kinetic energy are unrelated True or False 1 point each 11 Solids are incompressible TrueFalse 3 12 Liquids have a definite shape TrueFalse 13 The particles in a gas are constantly moving and colliding TrueFalse 14 Plasma is the most common state of matter in the universe TrueFalse 15 The boiling point of a liquid is the temperature at which it changes into a solid TrueFalse Short Answer 2 points each 16 Explain the difference between a physical change and a chemical change 17 Describe the properties of a gas 18 Explain how pressure affects the state of matter 19 Give an example of sublimation and deposition in everyday life 20 Describe the role of intermolecular forces in the states of matter Bonus 3 points 21 Explain the relationship between the states of matter and the kinetic molecular theory Answer Key Multiple Choice 1 a Solid 2 a Solid 3 c Vaporization 4 b Definite shape 5 d Plasma 6 c Melting ice 7 b Deposition 8 d All of the above 9 d All of the above 10 c As temperature increases kinetic energy increases True or False 11 True 12 False 13 True 14 True 4 15 False Short Answer 16 A physical change is a change in the form or appearance of a substance but not its chemical composition A chemical change results in the formation of a new substance with different properties 17 Gases have no definite shape or volume they are highly compressible and their particles are far apart and move randomly 18 Increased pressure can force particles closer together favoring a more condensed state like a liquid or solid

Decreased pressure allows particles to spread further apart favoring a gaseous state 19 Sublimation Dry ice solid carbon dioxide sublimates into a gas at room temperature Deposition Frost forming on a window is an example of water vapor gas depositing as ice crystals solid 20 Intermolecular forces are attractive forces between molecules Stronger intermolecular forces lead to higher melting and boiling points as more energy is required to overcome these forces and change the state of matter Bonus 21 The kinetic molecular theory states that matter is made up of particles in constant motion The energy of these particles kinetic energy determines the state of matter In solids particles have low kinetic energy and are tightly packed In liquids particles have higher kinetic energy and are less tightly packed In gases particles have the highest kinetic energy and are far apart Grading Rubric Multiple Choice 1 point for each correct answer True or False 1 point for each correct answer Short Answer 2 points for each answer that demonstrates understanding of the concept and provides a clear explanation Bonus 3 points for a complete and accurate explanation of the relationship between the states of matter and the kinetic molecular theory Total Points 25 points 3 points bonus 5

States of MatterStates of MatterStates of MatterStates of MatterStates Of MatterWhat Are the States of Matter?States of Matter, States of MindThree Phases of MatterExtreme States of MatterStates of MatterStates of MatterStates of Matter in the Real WorldStates of MatterStates of MatterPostal Laws and Regulations of the United States of AmericaExtreme States of MatterStates of MatterStates of MatterDocuments of the Assembly of the State of New YorkStates of Matter Krista West Fiona Bayrock Suzanne Slade Chris Oxlade A. Goel Nathan Miloszewski Allan F.M. Barton Alan J. Walton Vladimir E. Fortov Chris Oxlade Carol Baldwin Roberta Baxter David L. Goodstein Robert Snedden United States Joseph A. Angelo Allan B. Cobb Vijaya Bodach New York (State). Legislature. Assembly Marie Roesser  
States of Matter States of Matter States of Matter States of Matter States Of Matter What Are the States of Matter? States of Matter, States of Mind Three Phases of Matter Extreme States of Matter States of Matter States of Matter States of Matter in the Real World States of Matter States of Matter Postal Laws and Regulations of the United States of America Extreme States of Matter States of Matter States of Matter Documents of the Assembly of the State of New York States of Matter *Krista West Fiona Bayrock Suzanne Slade Chris Oxlade A. Goel Nathan Miloszewski Allan F.M. Barton Alan J. Walton Vladimir E. Fortov Chris Oxlade Carol Baldwin Roberta Baxter David L. Goodstein Robert Snedden United States Joseph A. Angelo Allan B. Cobb Vijaya Bodach New York (State). Legislature. Assembly Marie Roesser*

reaching beyond the typical high school chemistry textbook each title in this series offers real life concrete examples that illustrate the practical importance of the topic at hand and includes a full color periodic table color photographs sidebars and a glossary

introduces the composition of matter its changing states and the effects of changing between states provided by publisher

explores the physical properties of matter introducing solids liquids and gases and showing how their atoms are arranged and how changing this arrangement causes matter to change phase

what are the four states of matter what happens when a substance changes state why is water different from many other liquids this title explores how elements change from one state to another how the water cycle works and how changes of state are used in our everyday lives you will also find several experiments that can be done at home

this book has been written for the students of under graduate and post graduate level of the various universities in india a special feature of the book is that the text has been illustrated with a large number of line diagrams and the data presented in the form of numerous tables for reference and comparison in the preparation of text standard works and review by renowned author have been freely consulted and the reference given chapter wise at the end of the book will be found useful by those who wish to make a more detailed study of the topics discussed contents liquid state solids state gaseous state

why does matter even matter matter takes up space and can be broken down into of one of three main states solids liquids or gases readers learn how to determine which state of matter an object is in how that state can change and how these different forces work together to help us in our daily lives for example water can be turned into ice to cool our drinks and air can be pumped into tires so we can ride a bike this book entertains and educates with real world examples fun facts and engaging images

states of matter states of mind is an easy to read introduction to the way the physical world is put together and stays together the book presents the fundamental ideas and particles of the makeup of the universe to enable understanding of matter and why it behaves in the way it does written in an engaging manner the book explains some of the intricate details and grand schemes of life and the universe by making analogies with common everyday examples for example the recipe for a cake tells us nothing of how good the cake tastes but is a model of the food and a scientific model is no closer to the reality of the materials than a recipe is to the mouth watering flavor of the cake illustrated with helpful cartoons this book provides a vast knowledge of atoms and atmospheres the first several chapters introduce terms and fundamental ideas while later chapters deal successively with particles and systems from the electron to the universe as a system each new idea introduced builds upon the last a user friendly bibliography provides references for further reading

with its many beautiful colour pictures this book gives fascinating insights into the unusual forms and behaviour of matter under extremely high

pressures and temperatures these extreme states are generated among other things by strong shock detonation and electric explosion waves dense laser beams electron and ion beams hypersonic entry of spacecraft into dense atmospheres of planets and in many other situations characterized by extremely high pressures and temperatures written by one of the world's foremost experts on the topic this book will inform and fascinate all scientists dealing with materials properties and physics and also serve as an excellent introduction to plasma shock wave and high energy density physics for students and newcomers seeking an overview

states of matter looks at important topics in chemistry such as solids liquids and gases changes of state the water cycle and mixing solids liquids and gases there are seven informative experiments that can be carried out at home and useful diagrams including the periodic table

examines the properties of solids liquids gases and plasmas as well as changes in states of matter and the nature of fluids

introduces matter and its states presents a brief history of the study of matter and discusses the conditions needed to change between the different forms

suitable for advanced undergraduates and graduate students of physics this uniquely comprehensive overview provides a rigorous integrated treatment of physical principles and techniques related to gases liquids solids and their phase transitions 1975 edition

find the answers to these questions and more in states of matter you will learn about the three main states of matter solid liquid and gas discover how materials are used in these states and the stages a material goes through when a change in state occurs book jacket

describes the unusual and almost bizarre characteristics and properties of matter at extreme states

discover the three states of matter solid liquid and gas explore the phase changes of matter that happen every day

solid liquid and gas these are the states of matter that young people are introduced to first they are easily observable in everyday life lightning is an example of another state of matter plasma and there are still others including bose einstein condensates that only exist in extreme conditions how these states form and why they change is the focus of this engaging book which pairs accessible information and essential science vocabulary with supporting images and diagrams readers will appreciate the approachable text and interesting fact boxes which encourage their curiosity about curricular concepts

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