

## 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 MatterExtreme States of Matter, Revised EditionStates of Matter, States of MindProperties of Matter: Three States of Matter Gr. 5–8States of MatterStates of Matter in the Real WorldStates of MatterStates of MatterStates of MatterStates of MatterExtreme States of MatterStates of MatterThree Phases of MatterWhat Are the States of Matter?States of MatterStates of Matter, States of MindDifferent States of MatterStates of MatterStates of Matter: Liquids Krista West Suzanne Slade Joseph Angelo Allan F.M. Barton George Graybill David L. Goodstein Roberta Baxter Carol Baldwin Chris Oxlade Emyr Alun Moelwyn–Hughes Georgia Amson–Bradshaw Joseph A. Angelo Stile Education Alan J. Walton Nathan Miloszewski Marie Roesser Allan F.M. Barton Charlotte Deschermeier Maria Koran

States of Matter States of Matter Extreme States of Matter, Revised Edition States of Matter,

States of Mind Properties of Matter: Three States of Matter Gr. 5–8 States of Matter States of Matter in the Real World States of Matter States of Matter States of Matter States of Matter Extreme States of Matter States of Matter Three Phases of Matter What Are the States of Matter? States of Matter States of Matter, States of Mind Different States of Matter States of Matter States of Matter: Liquids *Krista West Suzanne Slade Joseph Angelo Allan F.M. Barton George Graybill David L. Goodstein Roberta Baxter Carol Baldwin Chris Oxlade Emyr Alun Moelwyn–Hughes Georgia Amson–Bradshaw Joseph A. Angelo Stile Education Alan J. Walton Nathan Miloszewski Marie Roesser Allan F.M. Barton Charlotte Deschermeier Maria Koran*

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

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

extreme states of matter revised edition takes the reader on a journey across the most exciting scientific frontiers of the 21st century supported by full color illustrations this reference describes the unusual characteristics and properties of matter at extreme states such extreme states include matter at exceptionally high temperatures exceptionally low temperatures incredibly high pressures intense magnetic fields and intense gravitational fields readers will explore how the properties and characteristics of extreme state matter might influence the course of human civilization in this century in this up to date reference edition chapters include an initial look at matter nearing extreme conditions birth of the universe atomism very hot matter life cycles of stars the dark side of the universe very cold matter antimatter beyond einstein living and thinking matter

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

this is the chapter slice three states of matter from the full lesson plan properties of matter discover what matter is and is not learn about and the difference between a mixture and a solution chocked full with hands on activities to understand the various physical and chemical changes to matter our resource provides ready to use information and activities for remedial students using simplified language and vocabulary written to grade these science concepts are presented in a way that makes them more accessible to students and easier to understand our resource is jam packed with experiments reading passages and activities all for students in grades 5 to 8 color mini posters and answer key included and can be used effectively for test prep and your whole class all of our content is aligned to your state standards and are written to bloom s taxonomy and stem initiatives

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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

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what is the matter are you in a state over evaporation and condensation don't worry this book will give you the low down on liquids a summary about solids and the goods on gases and more this essential ks2 series for children aged 7 and up covers all the key science topics in energetic quick fire way aiding clear comprehension by getting straight to the point each spread starts with a flash or headline summing up succinctly the science information to follow attractive and light hearted illustration visually conveys the information adding depth and detail to engage children also includes fun jokes and cartoons to keep even the most reluctant readers entertained

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

states of matter aligned to acssu151 describe the arrangement and movement of particles in solids liquids and gases determine whether energy is lost or gained during a change of state analyse temperature data to compare state changes of different elements

why does matter even matter matter takes up space and can be broken down into 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

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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if liquids solids and gases are all matter why are these states of matter so different from one another set forth in simple language this volume explains how matter is formed how it can change states and how its states are unique it will leave students with a better understanding of the physical science involved in their own daily lives

watch five video adventures introducing matter hot air balloons lep collider or bang up physics the fourth state of matter and the water cycle learn more about everything from antimatter to atmosphere atoms to particles protons to plasma boiling points to solids and liquids to gases

did you know that liquids take the shape of their containers if liquids get hot they can become gases discover more interesting facts in states of matter liquids

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