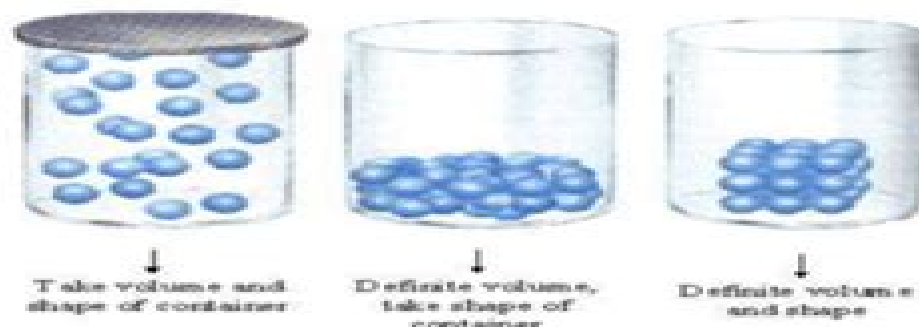


STATES OF MATTER TEST – STUDY GUIDE

1. **Matter** is anything that has mass and volume . **Volume** means the amount of space it takes up.
2. **Properties of matter** examples: color, taste, texture, odor, hardness, density
3. There are **3 main states or phases** of matter on Earth:

States of matter



- A. gas B. liquid C. solid
- A. **Gas:** very loosely packed molecules, no definite shape or volume
- B. **Liquid:** loosely packed molecules, definite volume, takes shape of container
- C. **Solid:** tightly packed molecules, definite shape and volume

mass: how much there is of something; usually measured by weighing in grams on Earth

property: a characteristic of matter; for example, shape, texture, size, color and what matter is made of. The properties of a playground ball are it is spherical, red, has a rough surface, is made of rubber, bounces, is hollow, and has a circumference of 15 inches.

gram: a small metric unit used to measure mass; objects such as feathers, coins, and paper clips are measured in grams. **kilogram:** a thousand grams; people, large animals, boulders, cars, etc.

atom: the smallest bit of matter

Condensation: when water vapor is cooled and turned into a liquid

Evaporation: when a liquid turns into a gas

Temperature changes a solid into a liquid. Think of the sun melting an ice cube (solid) to water (liquid).

Mixture: two or more things combined together **Solution-** a mixture with all parts evenly distributed

Control: part of experiment that is not changed so scientists can use it for comparison

Variable: part of the experiment that is purposely changed to find out what happens as a result

Chemistry Study Guide Answers States Of Matter

James E. Brady, Fred Senese



Chemistry Study Guide Answers States Of Matter:

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03

The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. A new Math Check allows quick access to the needed basic skill. The first chapter now includes brief introductions to several fundamental chemical concepts, and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter.

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