

## Chapter 3 States of Matter

**Section 3.1 Solids, Liquids, and Gases****(pages 68–73)**

This section explains how materials are classified as solids, liquids, or gases. It also describes the behavior of these three states of matter.

**Reading Strategy (page 68)**

**Comparing and Contrasting** As you read about the states of matter, replace each letter in the diagram below with one of these phrases: definite volume, definite shape, variable volume, or variable shape. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

**Describing the States of Matter (pages 68–73)**

- What are the three common states of matter?  
a. solids      b. liquids      c. gases
- Is the following sentence true or false? The fact that a copper wire can be bent shows that some solids do not have a definite shape.  
True
- Circle the letter of each phrase that describes how particles at the atomic level are arranged within most solids.  
a. randomly arranged      ☒ b. packed close together  
☒ c. arranged in a regular pattern      d. spread far apart
- Is the following sentence true or false? A liquid takes the shape of its container. True
- What is the state of matter in which a material has neither a definite shape nor a definite volume? gas
- Compare and contrast the arrangement of particles at the atomic level for a liquid and a solid. Particles in a solid are packed close together in an orderly arrangement. The arrangement of particles in a liquid is more random.
- What determines the shape and volume of a gas? A gas takes the shape and volume of its container.
- On the sun, where temperatures are extremely high, matter exists in a state known as plasma.

## Section 3 1 Solids Liquids And Gases

**AW Rasmussen**



### Section 3 1 Solids Liquids And Gases:

*Application of the Concept of Exemption* IAEA,2023-11-15 Intended for use by government officials and those working for regulatory bodies and operating organizations this publication will assist in the application of IAEA Safety Standards Series No GSR Part 3 in relation to the concept of exemption of practices or sources within practices from regulatory control It addresses the application of a graded approach to the concept of exemption through the use of generic exemption and specific exemption It explains the concept of exclusion and its relationship to exemption and clearance The recommendations provided in this publication are applicable to all facilities and activities that use manufacture process trade or store radioactive sources or material containing either natural or artificial radionuclides The Safety Guide primarily addresses exemption from regulatory control in planned exposure situations Although the concept of exemption is only applicable to planned exposure situations guidance on the application of a screening approach for decision making in managing certain existing exposure situations is also provided *Physical Sciences* Amy Bain,Janet Richer,Janet Weckman,2001-05-15

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