# **Matter—Properties and Changes**

# Section 3.1 Properties of Matter

pages 70-75

#### Problem-Solving Lab

 Explain why the flow of a compressed gas must be controlled for practical and safe use.

The flow of compressed gas must be controlled to control the amount and the rate at which gas is released.

Predict what would happen if the valve on a full tank of compressed gas were suddenly opened all the way or if the tank were accidentally punctured.

Without the regulator device, the gas would rush out of the tank with a force powerful enough to transform the tank into a dangerous, uncontrolled projectile.

#### Section 3.1 Assessment

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 Create a table that describes the three common states of matter in terms of their shape, volume, and compressibility.

	Volume	Shape	Compressibility
Solid	Definite	Definite	Incompressible
Liquid	Definite	Takes shape of container and fills container to the extent of its own volume	Virtually incompressible
Gas	Fills volume of container	Takes shape of container	Compressible

Describe the characteristics that identify a sample of matter as being a substance.

The sample of matter must have a uniform and unchanging composition to be a substance.

- Classify each of the following as a physical or chemical property.
  - a. Iron and oxygen form rust.

chemical

- Iron is more dense than aluminum.
   physical
- Magnesium burns brightly when ignited.
   chemical
- d. Oil and water do not mix. physical
- Mercury melts at -39°C.
  physical
- Organize Create a chart that compares physical and chemical properties. Give two examples for each type of property.

The chart should make clear that physical properties can be observed without changing the composition of the sample, which is not the case for chemical properties. Mass and density are examples of physical properties. Fermentation and rusting are examples of chemical properties.

# Section 3.2 Changes in Matter

pages 76-79

#### **Practice Problems**

page 78

Use the data in the table to answer the following questions.

Aluminum and Liquid Bromine Reaction			
	Before Reaction	After Reaction	
Aluminum	10.3 g	0.0 g	
Liquid bromine	100.0 g	8.5 g	
Compound	0.0 g		

How many grams of bromine reacted? How many grams of compound were formed?

amount of bromine that reacted = 100.0 g - 8.5 g = 91.5 g

amount of compound formed = 100.0 g + 10.3 g - 8.5 g = 101.8 g

# **Section 2 Of Matter Reinforcement Changes Of State Answers**

Holt Rinehart & Winston, Holt, Rinehart and Winston Staff

#### **Section 2 Of Matter Reinforcement Changes Of State Answers:**

Colors-TM Jyoti Swaroop, Geeta Oberoi, Term Book

Rinehart and Winston Staff, 2001-07 Journeys-TM J. Isaac Rajkumar, P. Yesudhas, M. Uma Maheshwari, Jyoti Swaroop, Geeta Oberoi, Vikram Mehta, Dr LC Sharma, Term Book Merrill Earth Science Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 Glencoe Earth Science Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth's atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography Comprehension, Decision Making & Problem Solving Compendium for IAS Prelims p 8 9 Railway Age ,1936 General Studies Paper 2 & State PSC Exams 2nd Edition Disha Experts, The Parliamentary Debates (official Report). Great Britain. Parliament. House of Commons, 1919 Engineering News ,1904 Resources in Education .1996 IBPS RRB SO General Banking Officer Scale 2 Exam 2024 (English Edition) - 10 Full Length Practice Mock Tests (2000+ MCQs) with Free Access to Online Tests EduGorilla Prep Experts, 2024-06-27 Best Selling Book in English Edition for IBPS RRB SO General Banking Officer Scale II Exam with objective type questions as per the latest syllabus given by the Institute of Banking Personnel and Selection IBPS RRB SO Scale II Exam Preparation Kit comes with 10 Practice Tests with the best quality content Increase your chances of selection by 16X IBPS RRB SO General Banking Officer Scale II Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using Official Gazette of the United States thoroughly Researched Content by experts Army Reserve Magazine ,1956 Patent and Trademark Office United States. Patent and Trademark Office, 1992 Official Gazette of the United States Patent and Trademark Office, 1996 Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 1923 Contains the 4th session of the 28th Parliament through the session of the Parliament Congressional **Record** United States. Congress, 1981 Board of Contract Appeals Decisions United States. Armed Services Board of Contract Appeals, 1971 The full texts of Armed Services and othr Boards of Contract Appeals decisions on contracts appeals The Future of International Economic Integration Gillian Moon, Lisa Toohey, 2018-09-27 Responds to current world events and offers a rich resource for initiating new conversations about potential futures for the trade regime Research in Education ,1973 Applied Mechanics Reviews ,1967

Holt Science and Technology Holt Rinehart & Winston, Holt,

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