

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.
 - Iron and oxygen form rust.
chemical

- Iron is more dense than aluminum.
physical
- Magnesium burns brightly when ignited.
chemical
- 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

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- 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 =
 $100.0 \text{ g} - 8.5 \text{ g} = 91.5 \text{ g}$

amount of compound formed =
 $100.0 \text{ g} + 10.3 \text{ g} - 8.5 \text{ g} = 101.8 \text{ g}$

Section 3 1 Chemistry Answers

Arturo Cuomo

Section 3 1 Chemistry Answers:

NEET 2026 Answer-Craft Toolkit: 150 Structured Prompts in Biology (Cell Biology, Genetics, Human Physiology), Chemistry (Organic, Inorganic, Physical), and Physics (Mechanics, Optics, Thermodynamics) — NCERT-Mapped & Error-Free ReguReady, Free Telegram PDFs are chaotic full of errors missing diagrams and no structure This Answer Craft Toolkit gives NEET aspirants clarity speed and confidence with 150 structured prompts Biology 50 Prompts Cell Membrane Cell Cycle DNA Replication Mendelian Genetics Human Digestive System Respiratory System Circulatory System Nervous Endocrine Systems Photosynthesis Respiration Plant Hormones Chemistry 50 Prompts Atomic Models Periodic Trends Organic Reactions Hydrocarbons Functional Groups Mechanisms Inorganic Chemistry Coordination Compounds Equilibrium Physical Chemistry Thermodynamics Electrochemistry Kinetics Physics 50 Prompts Mechanics Motion Work Energy Power Laws of Gravitation Optics Electromagnetism Thermodynamics Oscillations Modern Physics Why aspirants buy this instead of relying on free NCERT Mapped Error Proof QA checked against NCERT Exam Exact Scaffolded Practice answers structured like NEET requires Topic Coverage all high yield areas cell bio genetics human physiology organic chemistry thermodynamics optics Mobile Friendly easy to revise on phone tablet The only NEET 2026 toolkit designed to build exam ready answers across Biology Chemistry Physics Want 1 000 diagrams 2 500 MCQs 15 mocks See NEET Mastery Pack by ReguReady 53

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GCSE Additional Science Higher Hannah Kingston,2006-09 Covers the 2006 Gateway Additional Science specification for all exam boards AQA Edexcel and OCR for students going on to study Additional Science Part of the Success series this title emphasises the shift from fact learning to investigating and understanding how science works

Timetable

University of Illinois at Urbana-Champaign,1914 **Iit-Jee Main and Advanced Physics** Subhash Jain,2022-07-01 The new edition of IIT JEE Main Highlights of the Book Exam Pattern and Physics Syllabus for JEE Main and Advanced included An Analysis of IIT JEE included Chapter wise Theory detailed with 1000 examples 5000 Chapter wise Multiple Choice Questions 2500 Chapter wise Different Format Questions Chapter wise Assessment Test Chapter wise HOTS Problems Experimental Skills from Class XI XII Experiments Relativistic Mechanics Appendix Tables Glossary JEE Main and Advanced Mock Test NEET Mock Test Answers to Questions included with Explanations Presence of accurate Figures and Tables Physics is a combination of experimenting observation and the analysis of phenomena with mathematical and computational tools Thus this book serves to be a suitable Study Guide for the aspirants with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level With provision for self assessment in Mock Tests this book stands beneficial in imprinting concepts in the mind

Journal of General Chemistry of the U.S.S.R. in English Translation,1991 **The Physical Chemistry of Electrolytic Solutions** Herbert Spencer Harned,Benton Brooks Owen,1943

Catalogue of the Trustees, Officers, and Students, of the University ... and of the Grammar and Charity Schools ... University of Pennsylvania,1882 **North Central Association Quarterly**,1927 The official organ of the North Central Association of Colleges and Schools called earlier North Central Association of Colleges and Secondary Schools

Proceedings of the American Chemical Society American Chemical Society,1904 **Proceedings of the American Chemical Society**,1906 **Chemical Engineering Catalog**,1919 **Western Hospital and Nurses Review**,1928

Psychological Monographs,1918 Includes music **The Photographic News** William Crookes,George Wharton Simpson,1908 **The Education Gazette of the Province of the Cape of Good Hope** Cape of Good Hope (South Africa). Education Department,1920 **Journal of Chemical Education**,1929 **Collier's**,1913 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain),1926

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