

## Chapter 3, Lesson 1: What is Density?

### *Key Concepts*

- Density is a characteristic property of a substance.
- The density of a substance is the relationship between the mass of the substance and how much space it takes up (volume).
- The mass of atoms, their size, and how they are arranged determine the density of a substance.
- Density equals the mass of the substance divided by its volume;  $D = m/v$ .
- Objects with the same volume but different mass have different densities.

### *Summary*

Students will observe a copper and an aluminum cube of the same volume placed on a balance. They will see that the copper has a greater mass. Students will try to develop an explanation, on the molecular level, for how this can be. Students are then given cubes of different materials that all have the same volume. Students determine the density of each cube and identify the substance the cube is made from.

### *Objective*

Students will be able to calculate the density of different cubes and use these values to identify the substance each cube is made of. Students will be able to explain that the size, mass, and arrangement of the atoms or molecules of a substance determines its density.

### *Evaluation*

The activity sheet will serve as the "Evaluate" component of each S-E lesson plan. The activity sheets are formative assessments of student progress and understanding. A more formal summative assessment is included at the end of each chapter.

### *Safety*

Make sure you and your students wear properly fitting goggles.

### *Materials for Each Group*

- Cubes marked A–H that you will share with other groups
- Balance that can measure in grams
- Calculator

### *Materials for the Demonstration*

- Copper cube and aluminum cube of the same volume
- Balance

# Chapter 3 Lesson 1 What Is Density

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### Chapter 3 Lesson 1 What Is Density:

Homework Helpers: Earth Science Phil Medina, 2005-01-01 Homework Helpers Earth Science covers all of the topics typically included in a high school or undergraduate course including How to understand the language of rocks The events that we see in the sky and how they affect us Earthquakes and what they can tell us about the inside workings of our world How to understand the weather and what the weatherman is saying Homework Helpers Earth Science is loaded with practical examples using everyday experiences Every topic includes a number of simple tricks to make even the toughest ideas understandable and memorable Each chapter ends with practice questions and explanations of answers As a reference tool Homework Helpers Earth Science can be used as a preview of tomorrow s class or a reinforcement of today s It will leave students with a firm grasp of the material and the confidence that will inspire a deeper understanding *E-chemistry Iii Tm (science and Technology)' 2003 Ed. ,* **Homework Helpers: Chemistry** Greg Curran, 2011-04-15 Homework Helpers Chemistry is a user friendly review book that will make every student or parent trying to help their child feel like he or she has a private Chemistry tutor Concepts are explained in clear easy to understand language and problems are worked out with step by step methods that are easy to follow Each lesson comes with numerous review questions and answer keynotes that explain each correct answer and why it s correct This book covers all of the topics in a typical one year Chemistry curriculum including A systematic approach to problem solving conversions and the use of units Naming compounds writing formulas and balancing chemical equations Gas laws chemical kinetics acids and bases electrochemistry and more While Homework Helpers Chemistry is an excellent review for any standardized Chemistry test including the SAT II its real value is in providing support and guidance during the year s entire course of study **Chemistry** Greg Curran, 2011 Covers all the topics in a typical one year high school chemistry curriculum State Course of Study Virginia, Virginia. DEPT. OF PUBLIC INSTRUCTION., Virginia. State Board of Education, 1918 **The Future of Warm Air Heating Or Profiting Through Thinking** , 1925 **Discover Science: Teacher's annotated edition** , 1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society **Regulations Governing the Certification of Teachers in Virginia** Virginia. State Board of Education, 1919 **The Alexander Technique** Penelope Easten, 2021-04-19 Our entire human structure is built for movement for all aspects of life This book offers a new theoretical framework for understanding integrated movement based on the latest scientific models and practical explorations Presenting a new interpretation of how Alexander developed his work Easten covers twelve fundamentals of movement and shows how optimal movement is organised around sensory and spatial awareness and our focus and goals The book describes how to reawaken innate balanced movement possibilities Up to date scientific research is woven into Alexander s concepts to give a whole picture of how the human body feels perceives and self organises Clarifying the functional anatomy that underpins the Alexander technique this book explains how to utilize

the power of the autonomic nervous system and spatial awareness to allow us to change old harmful movement habits and enable new body learning Written accessibly and supported by illustrations and video demonstrations of techniques this book is ideal for Alexander technique teachers and trainees movement educators and somatic therapists *ATI TEAS Strategies, Practice & Review with 2 Practice Tests* Kaplan Nursing,2017-01-03 Kaplan s ATI TEAS Strategies Practice Review provides comprehensive content review realistic practice and expert advice to help you face the test with confidence and get into the school of your choice Kaplan s content review and practice questions are developed and tailored to the TEAS 6 for the most up to date prep Our exam focused instruction and targeted practice help you make the most of your study time The Best Review Two full length practice tests with comprehensive explanations of every question 50 question online Qbank for additional test like practice More than 300 additional practice questions and explanations to develop your skills Expert review of all TEAS content areas Reading Math Science and English and Language Usage Glossaries to help you understand the key terms in each content area Expert Guidance Our practical test taking strategies and study techniques help prepare you for even the hardest concepts Kaplan s expert nursing faculty reviews and updates content annually We invented test prep Kaplan www kaptest com has been helping students for almost 80 years Our proven strategies have helped legions of students achieve their dreams **Bulletin** Virginia. State Board of Education,1919 **Motion, Forces, and Energy** Michael J. Padilla,Peter Kahan,2002 *A Message of Ancient Days* ,1991 **Health: Teacher edition** Linda Brower Meeks,1987 Гігієна та екологія. Англійською мовою. Бардов В. Г., V **Chemical Building Blocks** Michael J. Padilla,David V. Frank,John G. Little,Steve Miller,2000 **Science in Your World: Teacher edition** Jay K. Hackett,1991 Focus on Earth Science ,2001 Harcourt Science: Physical science, [grade] 4, Units E and F, teacher's ed. [v. 18]. Life science, [grade] 5, Units A and B, teacher's ed ,2000 *Inorganic Chemistry for Beginners* Henry Enfield Roscoe,Joseph Lunt,1893

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