

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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