

CHAPTER 3 Matter—Properties and Changes

3.1 Properties of Matter

All of the material—the “stuff”—around us is matter. A **substance** is matter that has a uniform and unchanging composition. For example, water is a pure substance. No matter where it is found, a sample of water will have the same composition as any other sample of water.

A **physical property** of a substance is a characteristic that can be observed and measured without changing the composition of the substance. Words such as *hard*, *soft*, *shiny*, *dull*, *brittle*, *flexible*, *heavy* (in density), and *light* (in density) are used to describe physical properties.

A **chemical property** describes the ability of a substance to combine with or change into one or more other substances. For example, the ability of iron to form rust when combined with air is a chemical property of iron. The inability of a substance to combine with another substance is also a chemical property. For example, the inability to combine with most other substances is a chemical property of gold.

Practice Problems

1. Identify each of the following as an example of a physical property or a chemical property.
 - a. Silver tarnishes when it comes in contact with hydrogen sulfide in the air.
 - b. A sheet of copper can be pounded into a bowl.
 - c. Barium melts at 725°C .
 - d. Helium does not react with any other element.
 - e. A bar of lead is more easily bent than is a bar of aluminum of the same size.
 - f. Potassium metal is kept submerged in oil to prevent contact with oxygen or water.

Chapter 3 Matter Properties And Changes

Ian Pickup



Chapter 3 Matter Properties And Changes:

Reviewing **Chapter 3 Matter Properties And Changes**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Chapter 3 Matter Properties And Changes**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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