

## CHAPTER 3 Matter—Properties and Changes

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### 3.1 Properties of Matter

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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  $725^{\circ}\text{C}$ .
  - 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

**LP Steffe**



## **Chapter 3 Matter Properties And Changes:**

## Adopting the Song of Appearance: An Psychological Symphony within **Chapter 3 Matter Properties And Changes**

In a global consumed by monitors and the ceaseless chatter of immediate conversation, the melodic elegance and mental symphony developed by the published term frequently fade into the background, eclipsed by the persistent noise and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Chapter 3 Matter Properties And Changes** a stunning literary treasure filled with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this charming masterpiece conducts visitors on an emotional trip, well unraveling the concealed melodies and profound impact resonating within each carefully constructed phrase. Within the depths of the touching evaluation, we can discover the book is key harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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