Mixtures, Solubility, and Acid/Base Solutions

Substances and Mixtures

····· Before You Read ······

What do you think? Read the two statements below and decide whether you agree or disagree with them. Place an A in the Before column if you agree with the statement or a D if you disagree. After you've read this lesson, reread the statements to see if you have changed your mind.

Before .	Statement	After
	You can identify a mixture by looking at it without magnification.	
	 A solution is another name for a homogeneous mixture. 	

····· Read to Learn ·····

Matter: Substances and Mixtures

Many different types of matter exist around you. On your way to school, you might see metal, plastic, rocks, concrete, plants, fabric, water, and skin. You might notice that you can group some types of matter together into one category. For example, keys, coins, and paper clips are made of metal. Grouping matter into categories helps you understand how some things are similar to each other, but different from other things. Nearly all types of matter can be sorted into just two major categories-substances and mixtures.

What is a substance?

A substance is motter that is always made up of the same combination of atoms. There are two types of substanceselements and compounds. Recall that an element is matter made of only one type of atom, such as carbon (C), oxygen (O₁), and chlorine (Cl₁). A compound is matter made of atoms of two or more elements that are chemically bonded together. For example, water (H,O) always contains two atoms of hydrogen bonded to one atom of oxygen. Table salt (NaCl) always contains one atom of sodium bonded to one atom of chlorine. The composition of elements and compounds doesn't change. Therefore, all elements and compounds are substances.

Key Concepts



- How do substances and modulines diffee?
- How do solutions compare and contrast with heterogeneous mixtures?
- In what three ways do compounds differ from mixtures?

Study Coach

Make a Table with two columns to contrast substances and mixtures. Label one column Substances and the other column Mixtures. Complete the table as you read this lesson.

Reading Check

 Analyze is table salt an element or a compound? Explain.

Study Guide For Chapter 2substances Mixtures And Solubility

Huangqi Zhang

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