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For help look on page 25 in your Science Explorer: Compounds and Chemical Formulas A compound is composed of two or more elements joined together in a specific ratio. A chemical formula is used to represent a compound. The chemical formula Ag_2S represents the elements, silver and sulfur, which have been chemically combined. The compound is called silver sulfide. Tarnish on silver objects is silver sulfide.

Chemical Reactions The outer layer of this copper statue has a green coating that formed when some of the copper reacted with oxygen in the air. When a chemical reaction occurs, elements and compounds combine in different ways to make new materials. The elements copper and oxygen have reacted to form a new compound, copper oxide. The substances present before the reaction, copper and oxygen, are called the reactants. The new material at the end of the reaction, copper oxide, is called the product.

Evidence for Chemical Reactions How can you tell when a chemical reaction has occurred? You can detect many chemical reactions by observing changes in matter. For example a color change is often a sign of chemical change. Answer the following questions about the evidence of chemical reactions. If you need help, review pages 18 and 19 in your Science Explorer: What element was the outer layer of the Statue of Liberty originally made from? What evidence is there that a chemical reaction occurred on the surface of the Statue of Liberty? What is the name of the compound formed from the chemical reaction between copper and oxygen? What evidence of a chemical reaction do you observe when candles burn? What evidence of a chemical reaction can be noticed when bread is baked? If you watch exploding fireworks from a safe distance, what evidence of a chemical reaction can you observe?

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Chapter 2 : Science Explorer Chemical Interactions Guided Reading and Study Workbook by Michael J. Pa

a substance that cannot be broken down into any other substances by chemical or physical means element a substance made of two or more elements chemically combined in a specific ratio, or proportion.

Acids and Bases Acids and bases can be distinguished from each other by their different properties. For example, acids taste sour and turn blue litmus red. In contrast, bases are bitter and turn red litmus blue. Look at the photos above. Which photos show acidic substances? Which photos show substances that are bases? Understanding the pH Scale Acids and bases also behave differently when they are dissolved in water. Bases form negatively charged hydroxide ions OH^- and positive ions in solution. The concentration of hydrogen ions in solution is measured by the pH scale. Look at the pH scale below. Notice that the scale is numbered from 0 to 14. The lower the pH number, the higher the concentration of hydrogen ions and the more acidic the solution. Any substance listed below pH 7 is acidic. List the substances shown from the least acidic to the most acidic. Does it surprise you that milk is in the acid range? The higher the pH, the lower the concentration of hydrogen ions and the more basic the solution. Any substance above pH 7 is basic. List the substances shown from the least basic to the most basic. Pure water has a pH of 7, right in the middle of the scale. It is neutral—neither an acid nor a base. Using the scale above, answer the questions in your student activity workbook.

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