

Chapter 6, Lesson 3 Activity Sheet Answers

1. When sodium carbonate solution was mixed with a magnesium sulfate solution a chemical reaction took place because a solid was formed from two liquids.
2. A precipitate is a solid that is formed when two liquids are mixed together and the solid does not dissolve.
3. When a baking soda solution is combined with a calcium chloride solution, there is bubbling and white particles appear in the mixture.
4. When a baking soda solution is mixed with a calcium chloride solution, you can tell that a chemical reaction takes place because a gas and a precipitate are produced.
5. In a chemical reaction between solutions of calcium chloride and sodium bicarbonate, the gas produced is carbon dioxide. The precipitate is calcium carbonate.

How many atoms of each type appear on each side of the chemical equation?		
Atom	Reactant Side	Product Side
Calcium	1	1
Chlorine	2	2
Sodium	2	2
Hydrogen	2	2
Oxygen	6	6
Carbon	2	2

6. Filtering the calcium carbonate and allowing the water to evaporate from it are physical changes and not chemical changes. The filtering and the evaporation both leave calcium carbonate which does not become a different substance.
7. When the drops of ammonia were added to the copper II sulfate solution, there was a color change and a precipitate was formed.
8. When the hydrogen peroxide was added, the color changed and a different precipitate seemed to form.