

Name \_\_\_\_\_

**Answer Key: Mixtures and Solutions**

1. A mixture combines two or more substances in which each substance retains its own properties. It differs from a compound in that substances in a mixture are not chemically bonded.

2. A solution is a type of mixture where one substance (the solute) is evenly distributed and dissolved in another substance (the solvent). Example: Saltwater, where salt is dissolved in water.

3. The three states of solutions are solid solutions (e.g., alloys like bronze), liquid solutions (e.g., salt dissolved in water), and gas solutions (e.g., air, which is a mixture of gases). They differ based on the states of the solute and solvent.

4. Yes, substances in a mixture can be separated by physical means because they are not chemically bonded.

5. False