

Name \_\_\_\_\_



## Mixtures and Solutions

Mixtures are combinations of two or more substances in which each substance retains its own properties. Mixtures can be separated by physical means because the substances in a mixture are not chemically bonded.

Solutions are a type of mixture where one substance (the solute) is evenly distributed and dissolved in another substance (the solvent). Solutions can be solid, liquid, or gas, depending on the state of the solute and solvent.

An example of a solution is saltwater, where salt (solute) is dissolved in water (solvent). Solutions are essential in everyday life, from beverages to cleaning products.

## Questions

1. What is a mixture, and how does it differ from a compound?
2. Define a solution and provide an example.
3. What are the three states of solutions, and how do they differ?
4. Can substances in a mixture be separated by physical means? Why or why not?
5. True or False: All mixtures are solutions.