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so many fake sites. this is the first one which worked! Many thanks

## Mixtures and Solutions

How do mixtures and solutions compare?



Iron is a solid (Fe) dissolved in a solid (copper).



A soft drink is a gas (carbon dioxide) dissolved in a liquid (water).



Crude oil contains sulfur (S) dissolved in a liquid (water).



Saltwater is a liquid (NaCl) dissolved in a liquid (water).

Solutes and solvents can be solids, liquids, or gases.

A **mixture** is a combination of two or more substances that are not chemically combined. The parts of a mixture can be physically separated, although sometimes this is difficult. Each substance in a mixture keeps its original identity. If you picked out the peas from a mixture of peas and carrots, you would find that they haven't changed. They are still peas. You used differences in their color and shape to separate peas and carrots. Other mixtures can be separated by differences in their physical properties, such as density (sand and sawdust), magnetism

(iron and aluminum), or solubility (table salt and sand).

A **solution** is a mixture made of two or more substances that are evenly distributed throughout the mixture. Solutions are made when one substance dissolves in another substance. The substance that is being dissolved is the **solute**. The substance in which the solute is dissolved is the **solvent**. A substance that is able to dissolve in a given solvent is **soluble** in that solvent. If a solute cannot dissolve, it is **insoluble**.

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### Show What You Know

1. A \_\_\_\_\_ is a mixture in which the particles are evenly distributed.
2. A substance is \_\_\_\_\_ if it dissolves in a certain solvent.
3. In a solution, a \_\_\_\_\_ is the substance being dissolved.
4. In a solution, a \_\_\_\_\_ is the substance in which something is dissolved.
5. A substance is \_\_\_\_\_ if it does not dissolve in a certain solvent.