

Separation of Mixtures

A mixture can be separated by mechanical methods. Match the terms in the word box to each description of a various method of separating mixtures.

weight

magnetism

evaporation

sifting or filtering

A mixture is heated until the water changes from a liquid to a gas. The water vapor can be collected and condensed back into liquid form. The remaining substance has then been separated from the water.

1 _____

A mixture is passed through a screen that separates large particles from small particles. The smaller particles pass through while the larger particles are collected on the screen.

2 _____

A special machine called a centrifuge spins a mixture to separate substances with different masses. The heavier substance is forced to the bottom and the liquid is siphoned off.

3 _____

A magnet is used to separate magnetic materials from those that are not magnetic.

4 _____

Use the terms from the word box above to identify the method that could be used to separate each of the following mixtures.

5 _____

A mixture of oil and water

6 _____

A mixture of lead and aluminum pellets

7 _____

A mixture of salt and iron filings

8 _____

A mixture of sand and gravel

9 _____

A mixture of sugar and water

10 _____

A mixture of red blood cells and plasma