



Elements, Compounds and Mixtures

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- B. compound
- C. mixture
- D. solution

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- C. solvent
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What is a solid solution of metal or nonmetal dissolved in a metal called?

- A. suspension
- B. alloy
- C. colloid
- D. compound

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A colloid has properties of both suspensions and

- A. solutions
- B. solvents
- C. solutes
- D. nonmetals

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What is formed when particles of two or more substances are distributed evenly among each other?

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- B. suspension
- C. solution
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- B. related to the density
- C. a physical property
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How is a compound different from a mixture?

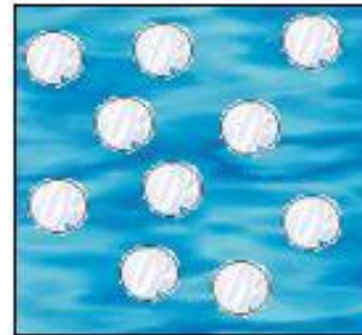
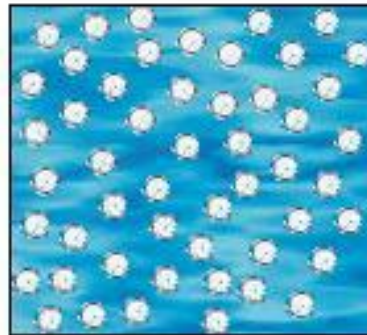
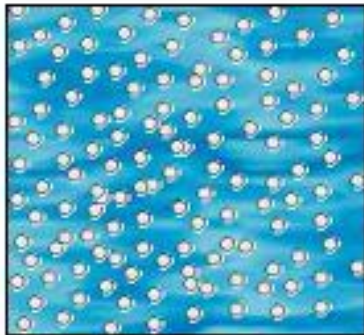
- A. Compounds have two or more components.
- B. Each substance in a compound loses its characteristic properties.
- C. Compounds are commonly found in nature.
- D. Solids, liquids and gases can form compounds.

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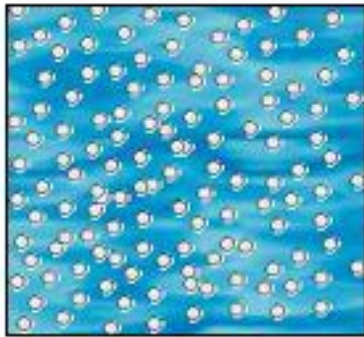
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Identify each type of mixture. Which mixture can be separated by using a filter?

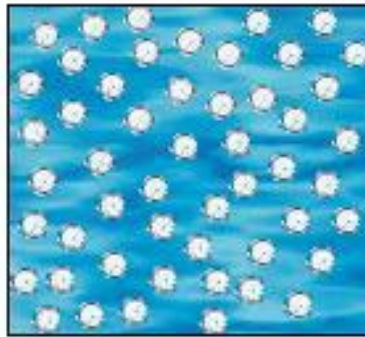
- A. Colloid
- B. Suspension
- C. Solution



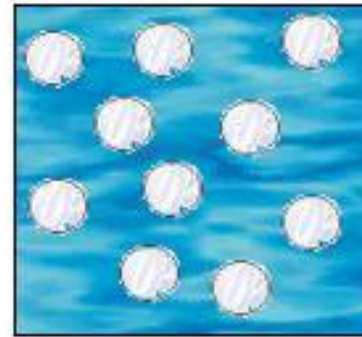
Suspensions can be separated by a filter.



True solution



Colloidal solution



Suspensions

The particles in both a solution and a colloid

- A. cannot scatter light.
- B. can settle out.
- C. are soluble.
- D. can pass through a fine filter.

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Which of the following is NOT a reason that compounds are considered pure substances?

- A. They are composed of only one type of particle.
- B. The particles are made of atoms of two or more elements that are chemically combined.
- C. Different samples of any compound have the same element in the same proportion.
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How are metalloids similar to metals?

- A. They have some properties of nonmetals.
- B. Some are shiny, while others are dull.
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How could a sugar cube be dissolved more quickly in water?

- A. Cool the water.
- B. Crush the sugar cube.
- C. Let the cube sit in the water.
- D. Add more water.

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An aluminum pie plate

- A. alloy
- B. element
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A milk shake

- **A. solute**
- **B. alloy**
- **C. mixture of solids**
- **D. suspension**

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Calcium carbonate

- A. solute
- B. alloy
- C. compound
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- B. alloy
- C. compound
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Potting soil

- **A. mixture of solids**
- **B. compound**
- **C. suspension**
- **D. alloy**

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- **D. alloy**

Instant coffee that is placed in hot water

- A. alloy
- B. solute
- C. compound
- D. mixture of solids

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A steel crowbar

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A steel crowbar

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Also known as table salt

- **A. Carbon dioxide**
- **B. Sulfur**
- **C. Sodium chloride**

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Used by plants during
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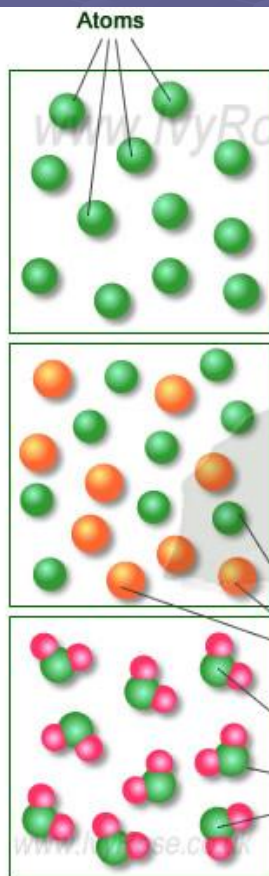
Is a nonmetal

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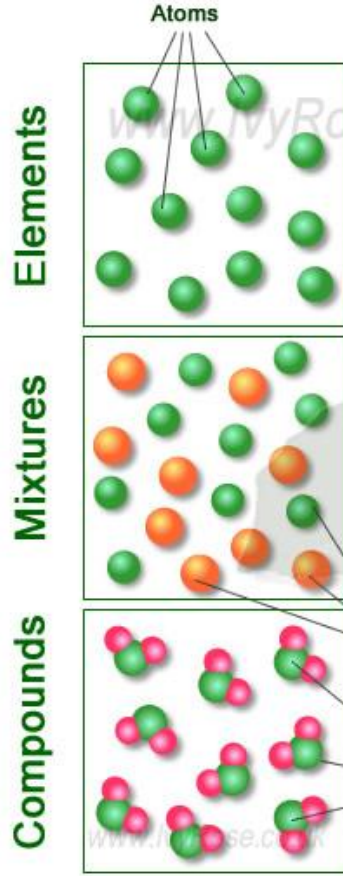
Identify each group.



A. Compound

B. Mixture

C. Element





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