

What happens when materials are mixed?

Matching

1. solution	a. The substance that is dissolved by a solvent
2. solute	b. The mixture of a solute and a solvent
3. solvent	c. The substance that dissolves the solute

1- _____

2- _____

3- _____

miscible	immiscible	density
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4. Olive oil and water do not mix. They are _____.

5. Acid and alcohol do mix because they have equal _____.

6. Water and fruit juice are _____ because they mix.

soluble	insoluble	filtration	evaporation
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- A cube of sugar dissolves in water. It is (7) _____ in the water. There is no chemical reaction between the two. The solid can be separated by (8) _____

- Sand doesn't dissolve in water. It is (9) _____ in the water. There is no chemical reaction between the two. The solid can be separated by (10) _____

Circle the correct answer:

1. Burning is an example of what type of change?

- A. reversible B. irreversible

2. Melting is an example of what type of change?

- A. reversible B. irreversible

3. 'Most reversible changes are physical changes.' True or false?

- A. true B. false

4. Which one of these changes is reversible?

- A. frying an egg B. melting chocolate C. burning wood

5. Which one of these changes is irreversible?

- A. freezing water B. dissolving salt in water C. making bread into toast
6. 'Changes to some mixed materials can be reversed by evaporation.' True or false?
A. true B. false
7. 'If you beat an egg, its chemical composition will change.' True or false?
A. true B. false
8. Which of these materials will dissolve in water?
A. sand B. cooking oil C. salt
9. Which word describes a material that doesn't dissolve in water?
A. solution B. insoluble C. soluble
10. How could you make a solid dissolve faster in water?
A. stir it B. freeze it C. use bigger pieces