

## Mixtures

STUDENT BOOK p. 10

## Solutions

STUDENT BOOK pp. 10, 43

### 1. True or false?

- a) A homogeneous mixture is made up of only one substance.
- b) A homogeneous mixture is made up of only one visible state.
- c) A heterogeneous mixture is made up of several visible states.
- d) A heterogeneous mixture consists only of substances that cannot be distinguished.

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### 2. Indicate if each item is a homogeneous or heterogeneous mixture. Check the correct answers.

	Homogeneous mixture	Heterogeneous mixture
a) Orange juice with pulp	<input type="checkbox"/>	<input type="checkbox"/>
b) Apple juice	<input type="checkbox"/>	<input type="checkbox"/>
c) Stainless steel pole	<input type="checkbox"/>	<input type="checkbox"/>
d) Rusted steel pole	<input type="checkbox"/>	<input type="checkbox"/>
e) Raisin bread	<input type="checkbox"/>	<input type="checkbox"/>
f) Air	<input type="checkbox"/>	<input type="checkbox"/>

### 3. Which statement best matches the definition of a solution?

- a) Heterogeneous mixture in which one or more substances are dissolved in another substance.
- b) Heterogeneous mixture in which a single substance is dissolved in another substance.
- c) Homogeneous mixture in which one or more substances are dissolved in another substance.
- d) Homogeneous mixture in liquid phase in which a substance is dissolved.

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### 4. Choose the word in the box that best describes each item listed below.

Solubility	Solution	Solute	Solvent
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- a) Property of salt that allows it to dissolve in water but not in oil.
- b) Alloyed metal in which certain substances dissolve.
- c) Sugar that is dissolved in a glass of juice.
- d) Tap water is one example.

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