

Chemical change

STUDENT BOOK pp. 21, 50

1. Which of the following phrases does **not** describe a chemical change?

- a) Transformation that changes the nature of matter. ☐
- b) Transformation that changes the quantity of matter. ☐
- c) Transformation that changes the characteristic properties of matter. ☐
- d) Transformation that produces new substances. ☐

2. Match each type of chemical change with its description.

Change	Description
a) Combustion	1. Chemical reaction that produces complex substances (sugars) by combining simple substances (water and carbon dioxide).
b) Photosynthesis	2. Chemical reaction in which a substance reacts with oxygen, releasing lots of energy.
c) Fermentation	3. Chemical reaction that produces alcohol without oxygen with the help of yeast.

3. For each of the chemical reactions described below, choose one or more clues from the box that point to the type or types of chemical change in progress.

Release of heat	Generation of light	Release of gas
Change of colour	Formation of a precipitate (solid deposit)	

a) When two liquids are mixed together, a yellow solid forms.

b) When vinegar is mixed with bicarbonate of soda, a gas is released and the container becomes hot.

c) When magnesium burns, it produces a bright light.

d) Combustion of a wood log gives off heat and light.

e) Copper turns green when it oxidizes.
