

# Chapter 7

## Chemical reactions

### 7.1 Physical and chemical changes

01. 0620\_s21\_qp\_21 Q: 14

When sulfur is heated it undergoes a .....1..... change as it melts.

Further heating causes the sulfur to undergo a .....2..... change and form sulfur dioxide.

Which words complete gaps 1 and 2?

	1	2
<b>A</b>	chemical	chemical
<b>B</b>	chemical	physical
<b>C</b>	physical	chemical
<b>D</b>	physical	physical

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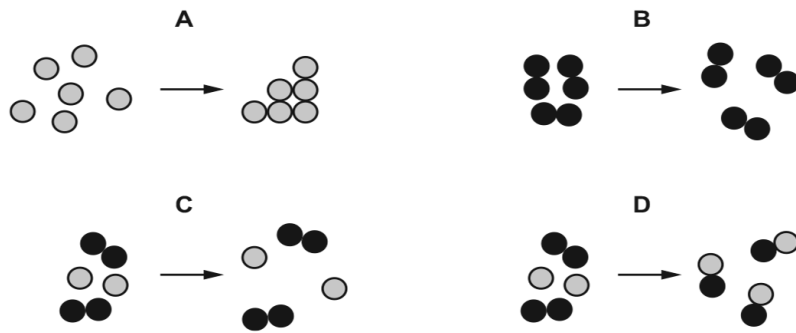
02. 0620\_m20\_qp\_22 Q: 14

Which change is a physical change?

- A** Copper(II) carbonate changes colour from green to black when it is heated, and stays black when it cools.
  - B** Ethanol reacts with oxygen to form carbon dioxide and water.
  - C** Hydrogen peroxide decomposes into water and oxygen when it is boiled.
  - D** Ice forms liquid water when it is heated.
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03. 0620\_s20\_qp\_21 Q: 14

Which diagram represents a chemical change?



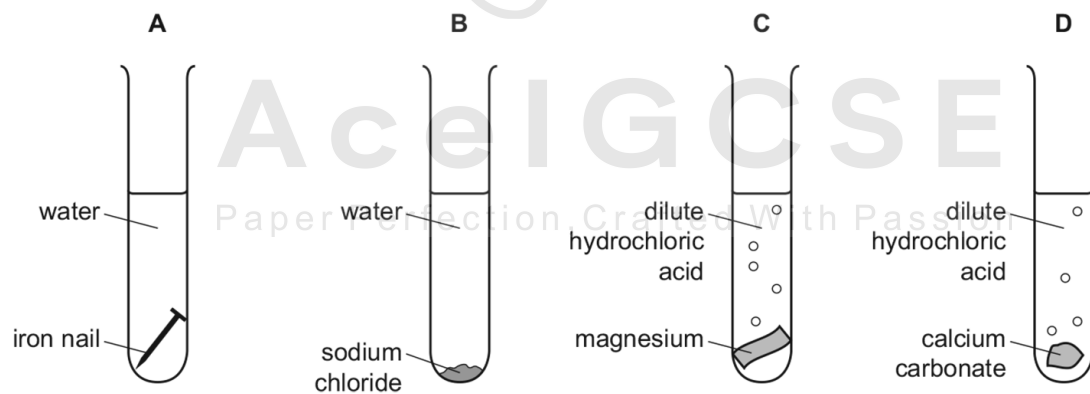
04. 0620\_s20\_qp\_22 Q: 14

Which list contains **only** chemical changes?

- A melting, evaporating, dissolving
- B rusting, freezing, subliming
- C neutralisation, polymerisation, combustion
- D boiling, condensing, distillation

05. 0620\_s20\_qp\_23 Q: 14

In which tube is a physical change taking place?



7.1. PHYSICAL AND CHEMICAL CHANGES

06. 0620\_w19\_qp\_21 Q: 15

Which is a chemical change?

- A boiling water
  - B cooking an egg
  - C dissolving sugar
  - D melting ice cubes
- 

07. 0620\_w19\_qp\_22 Q: 15

Which row identifies a chemical and a physical change?

	chemical change	physical change
A	boiling ethanol	burning ethanol
B	burning ethanol	evaporating ethanol
C	dissolving ethanol in water	burning ethanol
D	evaporating ethanol	dissolving ethanol in water

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08. 0620\_w19\_qp\_23 Q: 15

A sequence of changes involving sulfur is shown.



Which row describes the changes?

	change 1	change 2
A	chemical	chemical
B	chemical	physical
C	physical	chemical
D	physical	physical

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09. 0620\_s17\_qp\_22 Q: 14

A gas is produced when calcium carbonate is heated.

Which type of change is this?

- A chemical
  - B exothermic
  - C physical
  - D separation
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10. 0620\_s17\_qp\_23 Q: 14

Which changes are physical changes?

- 1 melting ice to form water
- 2 burning hydrogen to form water
- 3 adding sodium to water
- 4 boiling water to form steam

- A 1 and 2      B 1 and 4      C 2 and 3      D 3 and 4
- 



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SN	Paper	Q. No.	Answer
01	0620_s21_qp_21	14	C
02	0620_m20_qp_22	14	D
03	0620_s20_qp_21	14	D
04	0620_s20_qp_22	14	C
05	0620_s20_qp_23	14	B
06	0620_w19_qp_21	15	B
07	0620_w19_qp_22	15	B
08	0620_w19_qp_23	15	C
09	0620_s17_qp_22	14	A
10	0620_s17_qp_23	14	B



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