ENGLAND GCSE CHEMISTRY EDEXCEL FOUNDATION · UNIT 7 · 10 QUESTIONS

# Rates of Reaction and Energy Changes — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

**1** **A passenger train travels at a steady speed. What is its acceleration?**

- **A** 10 m/s²
- **B** 9.8 m/s²
- **C** 1 m/s²
- **D** 0 m/s²

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2 **A kite is held by a string. What force does the string exert?**

- A tension
- B gravity
- C air resistance
- D friction

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3 **A chocolate cake rises in the oven. What makes it rise?**

- A a gas is made
- B the sugar freezes
- C the flour melts
- D the egg evaporates

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4 **In the disappearing cross experiment, what is timed?**

- A how long the cross takes to appear
- B how long the mixture takes to cool down
- C how long the acid takes to boil
- D how long the cross takes to vanish

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5 **A cup of coffee is left for an hour. What happens to its temperature?**

- A it stays the same all day
- B it falls to room temperature
- C it rises above room temperature
- D it falls to zero degrees

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6 **A reaction produces 60 cm cubed of gas in 10 seconds. What is the mean rate of reaction?**

- A 5.5 $cm^3/s$
- B 12 $cm^3/s$
- C 6.5 $cm^3/s$
- D 6 $cm^3/s$

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7 **What type of reaction is in a hand warmer?**

- A exothermic
- B electrolysis
- C neutralisation
- D endothermic

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8 **A reaction makes 1 moles of gas. What volume does the gas occupy at room temperature and pressure?**

- A 24 $dm^3$
- B 12 $dm^3$
- C 48 $dm^3$
- D 36 $dm^3$

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9 **In the combustion of methane, the energy needed to break the bonds is 1200 kJ and the energy released when new bonds form is 1600 kJ. What is the overall energy change?**

- A -400 kJ
- B 1600 kJ
- C 400 kJ
- D -1200 kJ

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**10** **In an experiment, 60 cubic centimetres of gas are made in 10 seconds. What is the rate of the reaction?**

- **A** 6 $cm^3/s$
- **B** 600 $cm^3/s$
- **C** 12 $cm^3/s$
- **D** 3 $cm^3/s$

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# ANSWER KEY

1. D
2. A
3. A
4. D
5. B
6. D
7. A
8. A
9. A
10. A

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