

AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

**Rate of Reaction
Questions**

M M E

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Total Marks: /22

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Calculating rates of reactions

Q1: Complete the equations to show how the rate of a chemical reaction can be found.

a)

$$\text{Mean rate of reaction} = \frac{\quad}{\text{time taken}}$$

(1 mark)

b)

$$\text{Mean rate of reaction} = \frac{\quad}{\text{time taken}}$$

(1 mark)

Q2: Give two ways, whereby the quantity of reactant or product can be measured.

(2 marks)

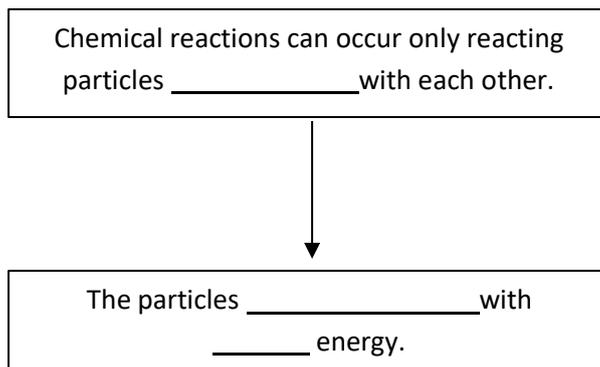
Factors which affect the rates of chemical reactions

Q3: Name five factors which affect the rates of chemical reactions:

(5 marks)

Collision theory and activation energy

Q4: Complete the flow diagram to show how collision theory works.



(2 marks)

Q5: Explain how increasing the concentration of reactants and increasing the temperature increases the rate of reaction.

(4 marks)

Catalysts

Q6: Describe what a catalyst is and why it is used.

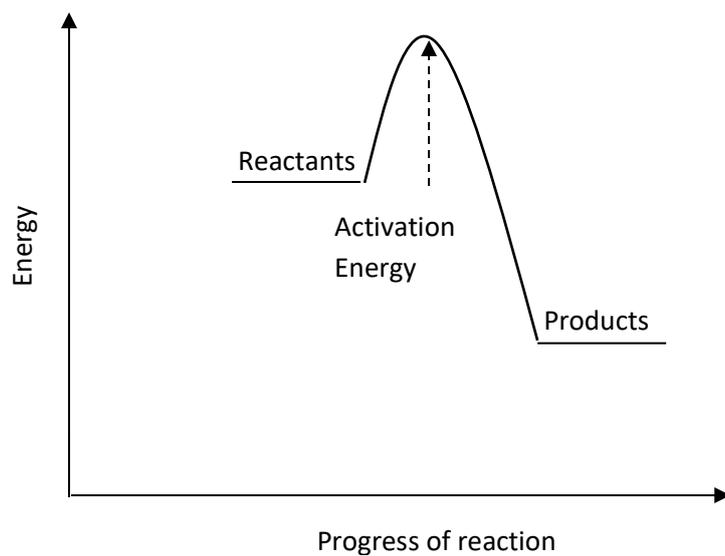
(2 marks)

Q7: Give an example of a biological catalyst.

(1 mark)

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Q8: Below is a reaction profile. Draw on the same diagram, of a catalysed reaction.



(2 marks)

Q9: How do catalysts change reactions in this way?

(2 marks)