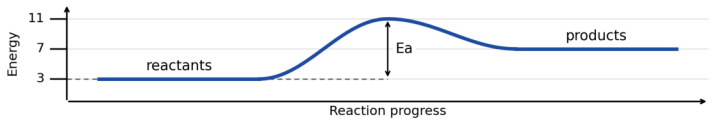
YUKON CHEMISTRY 12 (MCH--12) · UNIT A · 5 QUESTIONS

Reaction Rates — 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 to let Brett know so he can fix it.

1 **The diagram shows the energy profile for a reaction. Reactants are at 3, the peak is at 11, and products are at 7. The activation energy, in the diagram units, is _____**



ANSWER

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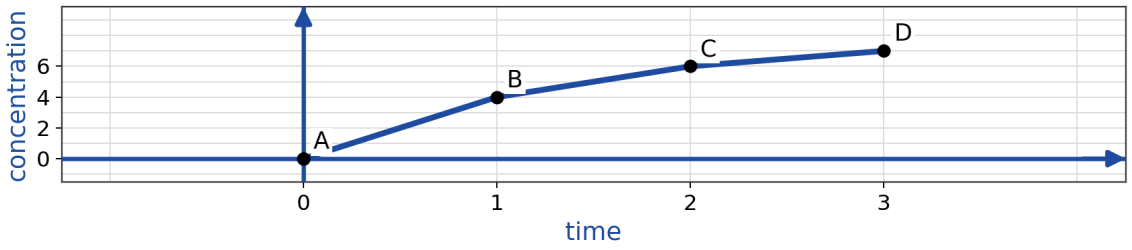
2 **The graph shows product concentration against time. Points are (0, 0), (1, 4), (2, 6), and (3, 7). During which time interval is product forming fastest**



A 1 to 2 minutes

B 0 to 1 minute

C 2 to 3 minutes

D The rate is constant

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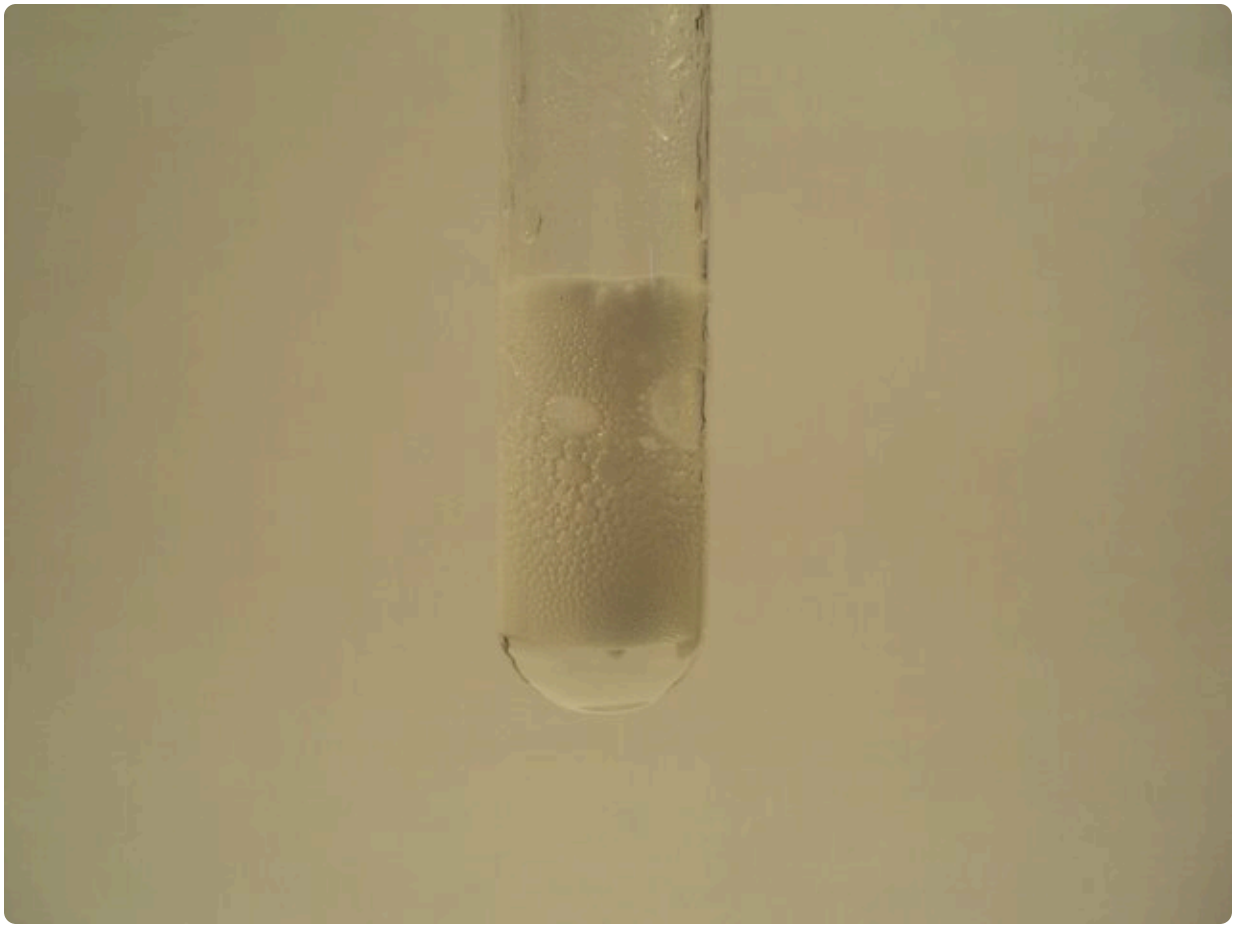
3 **Magnesium reacting with hydrochloric acid in a test tube, with bubbles of hydrogen gas fizzing up through the liquid. For a reaction with rate law rate = $k[X]^2$, halving [X] will**



A halve the rate

B double the rate

C reduce the rate to one quarter of its original value

D leave the rate unchanged, with the reaction proceeding exactly as fast as it did before

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4 **In an experiment, tripling [P] triples the initial rate. The order with respect to P is**

A 1

B 0

C 2

D 3

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5 **Which condition gives the fastest reaction between magnesium and acid**

A a magnesium block in cold, dilute acid

B magnesium ribbon in cold, dilute acid

C a magnesium block in warm, dilute acid

D magnesium ribbon in warm, concentrated acid

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ANSWER KEY

1. 8
2. B
3. C
4. A
5. D

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