ENGLAND GCSE COMBINED SCIENCE AQA SYNERGY FOUNDATION · UNIT 4 · 5 QUESTIONS

Explaining Change — Practice Test

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1 **A sunflower is left in bright light. Its leaves photosynthesise faster than in dim light. What else would increase the rate?**

- A less water in the soil
- B a lower temperature
- C less chlorophyll in the leaves of the plant
- D more carbon dioxide in the air

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2 **A forest absorbs carbon dioxide. Which process does this?**

- A respiration in the trees
- B decomposition in the soil
- C combustion of the wood
- D photosynthesis

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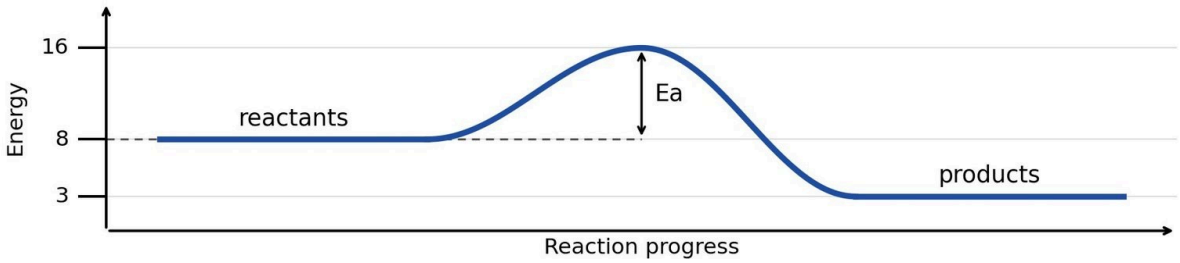
3

The diagram shows the energy profile for a reaction. The reactants are at energy 8, the peak is at 16 and the products are at 3. What is the activation energy?



A 8

B 5

C 24

D 13

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4 **In an experiment, 20 cubic centimetres of gas are made in 10 seconds. What is the rate of the reaction?**

- A 200 cm^3/s
- B 1 cm^3/s
- C 2 cm^3/s
- D 4 cm^3/s

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5 **Which of these is exothermic?**

- A dissolving ammonium nitrate
- B burning a fuel
- C melting ice
- D photosynthesis

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ANSWER KEY

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

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