ONTARIO CHEMISTRY, GRADE 11, UNIVERSITY PREPARATION (SCH3U) · UNIT B · 5 QUESTIONS

Chemical Reactions — Practice Test

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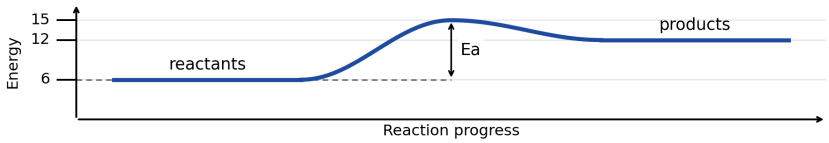
1 **The energy diagram shows reactants at 6, a peak at 15, and products at 12. What is the change in energy from reactants to products?**



ANSWER

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2 **Two glass beakers stand on a laboratory bench, one holding a clear acid and the other a clear base, with a glass stirring rod. Sulfuric acid reacts with potassium hydroxide to form potassium sulfate and**



A water

B hydrogen

C oxygen

D carbon dioxide

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3 **Which equation is balanced?**

A $H_2 + O_2$ gives H_2O

B $2\ H_2 + O_2$ gives $2\ H_2O$

C $H_2 + O_2$ gives $2\ H_2O$

D $2\ H_2 + 2\ O_2$ gives H_2O

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4 **When iron rusts, the main product is**

A iron chloride

B iron sulfate

C iron oxide

D pure iron

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5 **Photosynthesis is an example of a reaction that is**

A exothermic only, releasing heat into the surroundings as it proceeds

B not a chemical reaction

C a physical change only

D endothermic, because it absorbs light energy

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ANSWER KEY

1. 6
2. A
3. B
4. C
5. D

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