

## Chapter 7 Independent Reading Assignment

### Section 7.4 Explosives and Air Bags

1) What is an explosion?

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2) How does the collision model explain an explosion? \_\_\_\_\_

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3) Why can fertilizers also act as explosives? \_\_\_\_\_

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4) A chemical reaction occurs in air bags.

a) What gas(es) are produced? \_\_\_\_\_

b) Provide a balanced equation \_\_\_\_\_

c) How long does it take for an air bag to inflate after impact? \_\_\_\_\_

d) What is the danger of sodium in the air bag? \_\_\_\_\_

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### Section 7.6 Catalysts and Enzymes

1) State the definition of a catalyst, and provide an example. \_\_\_\_\_

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2) Use the collision model to explain how catalysts alter the rate of a reaction. \_\_\_\_\_

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3) What is an enzyme? \_\_\_\_\_  
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4) Why is ozone depletion still a problem even though CFC use has been largely banned?  
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5) What is the effect of an increase in the temperature, of about 60°C, on a reaction that is catalyzed by an enzyme? \_\_\_\_\_  
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Section 7.10 Food Preservation

1) Explain the meaning of an inhibitor. \_\_\_\_\_  
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2) How do preservatives alter the rate of food spoilage? \_\_\_\_\_  
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3) If you cut an apple up into smaller pieces it will spoil faster. Explain why this occurs in terms of the collision model. \_\_\_\_\_  
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4) Is an inhibitor a catalyst? And if so what type of catalyst is it? \_\_\_\_\_  
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