

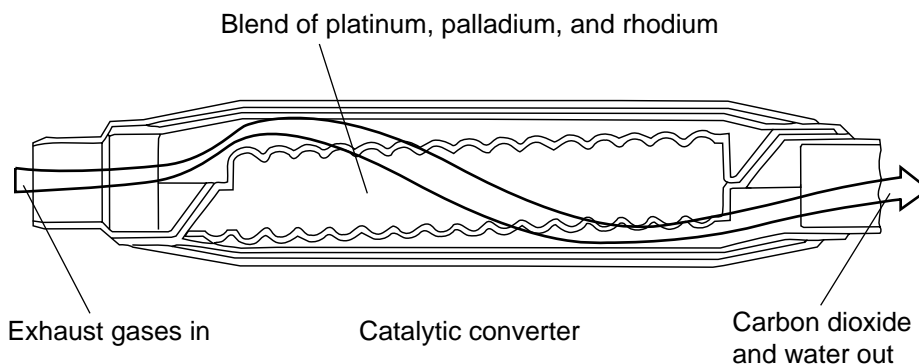
CHAPTER REVIEWChapter **18****Chemical Reactions****I. Vocabulary Review**

In the blank write the word or words that best complete the sentence.

1. An endothermic reaction _____ energy as the reaction continues.
2. Any substance that slows down a chemical reaction is a(n) _____.
3. Melting ice is an example of a(n) _____ change.
4. Galvanized steel used for gutters and garbage cans is steel coated with a layer of _____.
5. Magnesium sheets are bolted to bridge pillars so that the magnesium will _____ instead of the structural metal.
6. In the word equation: magnesium + vinegar \rightarrow magnesium acetate + hydrogen gas, magnesium and vinegar are _____.
7. In the word equation: magnesium + vinegar \rightarrow magnesium acetate + hydrogen gas, magnesium acetate and hydrogen gas are _____.
8. When you exhale into limewater using a straw, _____ is evidence of a chemical reaction.
9. High in the stratosphere, _____ rays from the sun react with regular oxygen molecules, making ozone.
10. Oil is placed on a bicycle chain to keep _____ from reacting with the metal chain.

II. Concept Review

Use Figure 1 to answer the following. In the blank at the left, write the letter of the choice that best completes the statement or answers the question.

FIGURE 1

- _____ **11.** What is the role of the blend of platinum, palladium, and rhodium?
a. product **b.** explosive **c.** catalyst **d.** reactant

Chapter Review 18 (continued)

- _____ **12.** Which reactant combines with oxygen in the presence of the catalyst?
a. platinum **b.** exhaust gases **c.** carbon dioxide **d.** palladium
- _____ **13.** What are the products of the chemical reaction in Figure 1?
a. rhodium and exhaust gases **c.** carbon dioxide and water
b. exhaust gases and oxygen **d.** platinum and palladium
- _____ **14.** If the blend of platinum, palladium, and rhodium is removed from the catalytic converter, what is likely to happen?
a. Exhaust gases will remain in the engine.
b. Harmful exhaust gases will NOT be changed.
c. More carbon dioxide will be produced.
d. More water vapor will be produced.

III. Skills/Process Review

Answer the following questions in phrases or complete sentences.

The table at the right contains data from an experiment in which two pieces of liver were added to hydrogen peroxide.

Mass of liver	Temperature after adding liver				
	Starting temperature °C	Minutes			
		1	2	3	4
1 g	24	24.5	25	25.5	26
3 g	24	25	26	27	27.5

- 15.** How many degrees did the temperature for the 1 g of liver increase after 4 minutes? _____
- 16.** Which sample released more thermal energy? _____
- 17.** Write a word equation for the chemical reaction recorded in the table. _____
- _____

IV. EYV Review

- 18. Science and Society: What's in Your Food Besides Food?** Summarize the reasons for placing additives in food. _____
- _____
- _____
- 19. Health Connection: Are You Too Awake?** Summarize the effects of caffeine. _____
- _____
- _____