Name	Date	Class
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Chemical Reactions • 6.2 Review and Reinforce

## **Describing Chemical Reactions**

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## **Understanding Main Ideas**

Balance the equations on the lines below. State whether the reaction is a synthesis, decomposition, or replacement reaction.

Given Equation	Balanced Equation	Type of Reaction
1. FeS + HCl $\rightarrow$ FeCl <sub>2</sub> + H <sub>2</sub> S	a.	b.
2. Na + F <sub>2</sub> → NaF	a.	b.
3. HgO $\rightarrow$ Hg + O <sub>2</sub>	a.	b.

Answer questions 4 and 5 on the back of this paper

- 4. Describe in words the reaction represented by the equation:  $2 H_2 + O_2 \rightarrow 2 H_2O$ . Include a description of the composition of each kind of molecule.
- 5. Use the principle of conservation of matter to explain why the equation in question 4 is balanced.

## **Building Vocabulary**

Match each term with its definition by writing the letter of the correct definition on the line beside the term in the left column.

- 6. chemical equation7. decomposition8. coefficient

9. product

10. reactant

- \_\_\_\_\_ 11. conservation of matter
- \_\_\_\_ 12. synthesis
- \_\_\_\_ 13. replacement

- a. substance present after a reaction
- **b.** reaction in which substances combine to form a more complex compound
- c. uses symbols and formulas to show chemical reactions
- d. reaction in which one element replaces another in a compound
- e. substance present before a reaction
- f. number telling how many molecules of a substance are involved in a chemical reaction
- g. reaction in which compounds are broken down into simpler products
- h. principle that states that matter is not created or destroyed during a chemical reaction

