

CHAPTER 9 Chemical Reactions

Section 1 Reactions and Equations

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Practice Problems

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Write skeleton equations for the following word equations.

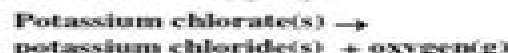
1. Hydrogen and bromine gases react to yield hydrogen bromide.



2. When carbon monoxide and oxygen react, carbon dioxide forms.



3. **Challenge** Write the word equation and the skeleton equation for the following reaction: when heated, solid potassium chlorate yields solid potassium chloride and oxygen gas.



Write chemical equations for each of the following reactions.

4. In water, iron(III) chloride reacts with sodium hydroxide, producing solid iron(III) hydroxide and sodium chloride.



5. Liquid carbon disulfide reacts with oxygen gas, producing carbon dioxide gas and sulfur dioxide gas.



6. **Challenge** A piece of zinc metal is added to a solution of dihydrogen sulfate. This reaction produces a gas and a solution of zinc sulfate.



Section 1 Review

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7. **Explain** why it is important that a chemical equation be balanced.

Because mass is neither created nor destroyed in chemical reactions, the numbers of atoms of all elements must be equal on both sides of the reaction arrow.

8. **List** three types of physical evidence that indicate a chemical reaction has occurred.

Answers may include release or absorption of energy, change in color, change in odor, formation of a gas, or formation of a solid.

9. **Compare and contrast** a skeleton equation and a chemical equation.

The skeleton equation includes the formulas of reactants and products. The chemical equation gives the relative amounts of reactants and products.

10. **Explain** why it is important to reduce coefficients in a balanced equation to the lowest possible whole-number ratio.

Coefficients in the lowest ratio most clearly indicate the relative amounts of substances in a reaction.

11. **Analyze** When balancing a chemical equation, can you adjust the subscript in a formula? Explain.

No. Doing so changes the identity of the substance.

Manual Of Hazardous Chemical Reactions

**National Fire Protection Association.
Technical Committee on Hazardous
Chemical Reactions, American National
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NFPA 491M National Fire Protection Association. Technical Committee on Hazardous Chemical Reactions, American National Standards Institute, 1991 *Manual of Hazardous Chemical Reactions* National Fire Protection Association. Technical Committee on Hazardous Chemical Reactions, American National Standards Institute, 1991 Manual of Hazardous Chemical Reactions. A Compilation of Chemical Reactions Reported to be Potentially Hazardous National Fire Protection Association. Committee on Chemicals and Explosives. Sectional Committee on Hazardous Chemical Reactions, 1964 *Manual of Hazardous Chemical Reactions* , 1971 **NFPA** National Fire Protection Association, 1975 *Manual of Hazardous Chemical Reactions* National Fire Protection Association. Committee on Chemicals and Explosives, 1975 **Manual of Hazardous Chemical Reactions** National Fire Protection Association, 1964 **Manual of Hazardous Chemical Reactions** Robert W. van Dolah, National Fire Protection Association (United States), 1975 Manual of Hazardous Chemical Reactions National fire protection association. Committee on chemicals and explosives. Sectional committee on hazardous chemical reactions, 1975 **Manual of Hazardous Chemical Reactions 1975** National Fire Protection Association. Sectional Committee on Hazardous Chemical Reactions, 1975 **Manual of Hazardous Chemical Reactions** National Fire Protection Association. Committee on Chemicals and Explosives, 1968 *Manual of Hazardous Chemical Reactions 1966* National Fire Protection Association, 1966 Manual of Hazardous Chemical Reactions, 1968 , 1968 **Manual of Hazardous Chemical Reactions** , 1968 **Manual of Hazardous Chemical Reactions, 1968** National Fire Protection Association (U.S.), 1968 **Manual of Hazardous Chemical Reactions** National Fire Protection Association. NTPA., 1966 **Manual of Hazardous Chemical Reactions, 1986** National Fire Protection Association, 1986 **Manual of Hazardous Chemical Reactions, 1975** National Fire Protection Association, 1975 *Manual of Hazardous Chemical Reactions, 1971* National Fire Protection Association, 1971 *Manual of Hazardous Chemical Reactions 1986* National Fire Prevention Association. Technical Committee on Hazardous Chemical Reactions, 1986

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