

CHAPTER 11, Chemical Reactions *(continued)*

9. Use the symbols in Table 11.1 on page 323 to write a skeleton equation for the following chemical reaction. Hydrochloric acid reacts with zinc to produce aqueous zinc(II) chloride and hydrogen gas.

**► Balancing Chemical Equations** (pages 324–328)

10. What is the law of conservation of mass?

In any physical or chemical change, mass is neither created nor destroyed.

11. Complete the flowchart for balancing equations.

Determine the correct formulas and physical states for the _____ **reactants** _____ and _____ **products** _____.



Write a _____ **skeleton equation** _____ with the formulas for the reactants on the left and the formulas for the products on the right of a yields sign (—→).



Count the number of _____ **atoms** _____ of each element in the reactants and in the products.



Balance the number of atoms of the elements on the two sides of the equation by placing _____ **coefficients** _____ in front of formulas. Never try to balance an equation by changing the _____ **subscripts** _____ in formulas.



Check each atom or polyatomic ion to be sure the equation is _____ **balanced** _____, and make sure that all coefficients are in the _____ **lowest** _____ possible ratio.

Chapter 11 Describing Chemical Reactions Answers

Michael J. Padilla



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step by step solutions most efficient method of learning hence saves time very advanced tradebook complete edition eBook available Chemistry James N. Spencer, George M. Bodner, Lyman H. Rickard, 2002-02-28 The second edition of Spencer's Chemistry Structure and Dynamics has been the most successful reform project published for the General Chemistry course The authors have revised the text by building on the recommendations of the ACS's Task Force on the General Chemistry Curriculum and suggestions from the adopters of the first edition This innovative text provides a fifteen chapter introduction to the fundamental concepts of Chemistry A collection of additional topics at the end of each chapter allow instructors to supplement and tailor their courses according to individual need Three major themes link the content of the book the process of science the relationship between molecular structure and physical chemical properties and the relationship between the microscopic and macroscopic levels **Fundamentals of Groundwater** Franklin W. Schwartz, Hubao Zhang, 2024-01-18

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