Chapter 6 Chemical Bonding

Chapter Opener

__Chapter Overview, TE Review the objectives listed in the Student Edition.

Section 1 Introduction to Chemical Bonding

PACING: 45 minutes

PENNSYLVANIA ACADEMIC STANDARDS FOR SCIENCE AND TECHNOLOGY: 3.4.A.5 Explain the formation of compounds and their resulting properties using bonding theories.

Objectives

- 1.Define chemical bond.
- 2. Explain why most atoms form chemical bonds.
- 3. Describe ionic and covalent bonding.
- 4. Explain why most chemical bonding is neither purely ionic nor purely covalent.
- 5. Classify bonding type according to electronegativity differences.

FOCUS (5 minutes)

__ Lesson Starter, TE Have students consider the causes of the attraction and repulsion between atoms.

MOTIVATE (10 minutes)

__Reading Skill Builder, Brainstorming, TE Have students work in pairs to discuss what is happening in different types of bonding.

TEACH (20 minutes)

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__Visual Strategy, Figure 1, TE Use the diagrams to help students understand the fundamental difference between ionic and covalent bonding.

__Sample Problem A, SE Demonstrate how to use electronegativity differences to classify bonding

__Practice Problems A, SE Students use electronegativity differences in order to classify bonding.

CLOSE (10 minutes)

_Section Review, SE Students answer end-of-section vocabulary, key ideas, critical thinking, and interpreting graphics questions.