

Section 2–1 The Nature of Matter (pages 35–39)

This section identifies the three particles that make up atoms. It also explains how atoms of the same element can have a different number of neutrons and describes the two main types of chemical bonds.

Atoms (page 35)

- The basic unit of matter is called a(an) .
- Describe the nucleus of an atom.
- Complete the table about subatomic particles.

SUBATOMIC PARTICLES		
Particle	Charge	Location in Atom
	Positive	
	Neutral	
	Negative	

- Why are atoms neutral despite having charged particles?

Elements (page 36)

- What is a chemical element?
- What does an element's atomic number represent?

Chemical Compounds (page 37)

- What is a chemical compound?
- What are the elements in salt? How many of each element are there?

Chemical Bonds (pages 38–39)

- What holds atoms in compounds together?
- Complete the table about the main types of chemical bonds.

CHEMICAL BONDS

Chemical bonds	
Type	Formed When...
Covalent bond	
Ionic bond	

- What is an ion?
- Is the following sentence **true or false**?
An atom that loses electrons has a negative charge.
- The structure that results when atoms are joined together by covalent bonds is called a(an) .