

**Chapter 2 The Chemistry of Life****Section Review 2-1****Reviewing Key Concepts**

**Completion** *On the lines provided, complete the following sentences.*

1. The nucleus, the center of the atom, is made up of \_\_\_\_\_ and \_\_\_\_\_.
2. The negatively charged particles in atoms are called \_\_\_\_\_.
3. Different isotopes of the same element have different numbers of \_\_\_\_\_.
4. Isotopes of the same element have the same chemical properties because they have the same number of \_\_\_\_\_.
5. In a(an) \_\_\_\_\_ bond, electrons are transferred from one atom to another.

**Short Answer** *On the lines provided, answer the following questions.*

6. Describe the two main types of chemical bonds that are found in compounds.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Explain how an atom becomes an ion.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Reviewing Key Skills**

8. **Comparing and Contrasting** What are the similarities and differences between electrons and protons?  
\_\_\_\_\_  
\_\_\_\_\_

9. **Applying Concepts** What is the relationship between atoms and molecules?  
\_\_\_\_\_  
\_\_\_\_\_

10. **Inferring** What property of radioactive isotopes allows them to be used to determine the age of rocks and fossils?  
\_\_\_\_\_  
\_\_\_\_\_