

Chapter 2

Use with Section 2

REINFORCEMENT**● The Nucleus**

Answer the following questions using information from the textbook.

1. Describe what the atomic number of an element refers to. _____

2. What are isotopes? _____

3. What is the strong nuclear force? _____

4. Explain what happens during transmutation. _____

5. Name two types of transmutations. _____
6. What is radioactive decay? _____
7. Describe an alpha particle. _____
8. Describe a beta particle. _____

9. What is meant by a half-life of a radioactive isotope? _____

10. Why are nuclear waste products a problem? _____

11. Why are tracer elements important? _____

