

Chapter 2

Text Pages 54–59

STUDY GUIDE

● Energy from Atoms

Match each description in Column I with the correct term in Column II. Write the letter of the correct term in the blank at the left.

Column I

- _____ 1. Location of ore deposits used to make fuel for nuclear reactors
- _____ 2. Long metal pipes that sit in water in a nuclear reactor
- _____ 3. The splitting of the nuclei of heavy elements
- _____ 4. Site of a proposed nuclear waste storage facility
- _____ 5. Source of most of the electricity generated by power plants in the United States
- _____ 6. Source of rock used to make fuel for nuclear power plants
- _____ 7. Most commonly used fuel in fission power plants
- _____ 8. Highly radioactive material produced by nuclear power plants
- _____ 9. Particles that begin a heat-releasing chain reaction when fired into fuel rods in a nuclear reactor
- _____ 10. Energy source produced from nuclear reactions

Column II

- a. fission
- b. Rocky Mountains
- c. neutrons
- d. fuel rods
- e. uranium-235 isotope
- f. Yucca Mountain
- g. nuclear waste
- h. sandstone
- i. nuclear energy
- j. fossil fuels

Answer the following questions on the lines provided.

11. What are three major hazards for possible nuclear waste storage sites? _____

12. How is heat released during an atomic reaction used to produce electricity in a nuclear reactor?

13. Why do some people oppose plans by the U.S. Department of Energy to construct a nuclear waste storage facility in Nevada? _____
