

Chapter 18 Nuclear Chemistry

Section 10.4 Fission and Fusion**(pages 308–318)**

This section discusses nuclear forces and the conversion of mass into energy. It also describes the nuclear processes of fission and fusion.

Reading Strategy (page 308)

Comparing and Contrasting As you read, contrast fission and fusion in the Venn diagram below by listing the ways they differ. For more information on this Reading Strategy, see the **Reading and Study Skills** in the Skills and Reference Handbook at the end of your textbook.

**Nuclear Forces** (pages 308–309)

- Describe the strong nuclear force. The strong nuclear force is the attractive force that binds protons and neutrons together in the nucleus.
- Is the following sentence true or false? Over very short distances, the strong nuclear force is much greater than the electric forces among protons. True
- Electric forces in atomic nuclei depend on the number of protons.
- Is the following sentence true or false? The strong nuclear force on a proton or neutron is much greater in a large nucleus than in a small nucleus. False
- All nuclei with 83 or more protons are radioactive.

Fission (pages 309–310)

- Describe fission. Fission is the splitting of an atomic nucleus into two smaller parts.
- Fission can produce very large amounts of energy from very small amounts of mass.

Unit 8 Fission And Fusion Worksheet Answer Key

Chandan Sengupta



Unit 8 Fission And Fusion Worksheet Answer Key:

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