

## 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.

# Fission Versus Fusion Worksheet Chapter 22 Answers

**Peipei Pang**



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