

SCH 3UI - Nuclear Chemistry

Textbook Reference: Section 4.4 (p. 142 – 148)

Read and prepare the following notes. Answer the questions indicated.

1. **List of Terms:**
 - a. Alpha Decay
 - b. Alpha Particle
 - c. Beta Decay
 - d. Beta Particle
 - e. Gamma radiation
 - f. Fission
 - g. Fusion
 - h. Binding energy (internet)
 - i. Mass defect (internet)
2. Write the 2 rules that you must follow when balancing a nuclear equation.
3. Summarize how the atomic number and atomic mass changes with each type of radiation.
4. Complete practice problems #29-39
5. Complete section review #2-5

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