



Problem Set 4
Chapters 4 and 25

Due Thursday Oct 24th

Nuclear Chemistry

Essay Due Oct 30th

Test Wednesday October 30th

- Your work is to be done on separate sheets of paper.
- All of the papers should be stapled together in the upper left hand corner with this question sheet at the back of the packet.
- Each of your responses should be numbered the same way as it appears on this packet.

Conceptual Questions

- 1) State the law of conservation of mass.
- 2) Why are atoms unstable?
- 3) How do unstable atoms gain stability?
- 4) A radioactive element having atomic number 82 and atomic mass 214 loses a beta particle, $0, -1\beta$. What is the resulting particle?
- 5) What type of decay is the reaction below, and what isotope completes this nuclear equation?
 $27,13\text{Al} + 2,1\text{H} \rightarrow 4,2\text{He} + ?$

Practice Questions

- 6) Complete this chart on the three types of radioactive decay

Type	Symbol	Mass (amu)	Charge
Alpha			
Beta			
Gamma			

- 7) If the radioactive atom $238, 92\text{U}$ emits an alpha particle, the atom remaining is represented by
 (A) $238, 92\text{U}$ (B) $236, 92\text{Th}$ (C) $234, 92\text{U}$ (D) $234, 90\text{Th}$ (E) $234, 91\text{Pa}$
- 8) What term completes this equation? $30,14\text{Si} + ? \rightarrow 32,16\text{S} + 0, -1e$
 (A) $4,2\text{He}$ (B) $2,1\text{H}$ (C) $1,1\text{H}$ (D) $0, -1e$
- 9) What particle is emitted when lead-214, $214, 82\text{Pb}$, undergoes natural radioactive decay to bismuth-214, $214, 83\text{Bi}$?
 (A) an alpha particle, $4,2\text{He}$ (C) a proton, $1,1\text{H}$
 (B) a beta particle, $0, -1e$ (D) a neutron, $1,0\text{n}$

Extension Question

- 10) Recently Alexander Valterovich Litvinenko was poisoned by radioactive polonium-210.
 - a. Research who he was and why he was poisoned.
 - b. Find out what polonium-210 does to people.

Glencoe Chemistry Worksheet Answers Chapter 1

Ying Liu



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