



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, ${}_{-1}^0\beta$. What is the resulting particle?
- 5) What type of decay is the reaction below, and what isotope completes this nuclear equation?
 ${}_{27}^{13}\text{Al} + 2\text{H} \rightarrow 4\text{He} + ?$

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 ${}_{92}^{238}\text{U}$ emits an alpha particle, the atom remaining is represented by
 (A) ${}_{92}^{238}\text{U}$ (B) ${}_{92}^{236}\text{Th}$ (C) ${}_{92}^{234}\text{U}$ (D) ${}_{90}^{234}\text{Th}$ (E) ${}_{91}^{234}\text{Pa}$
- 8) What term completes this equation? ${}_{14}^{30}\text{Si} + ? \rightarrow {}_{16}^{32}\text{S} + {}_{-1}^0e$
 (A) 4He (B) ${}^2_1\text{H}$ (C) ${}^1_1\text{H}$ (D) ${}_{-1}^0e$
- 9) What particle is emitted when lead-214, ${}_{82}^{214}\text{Pb}$, undergoes natural radioactive decay to bismuth-214, ${}_{83}^{214}\text{Bi}$?
 (A) an alpha particle, ${}^4_2\text{He}$ (C) a proton, ${}^1_1\text{H}$
 (B) a beta particle, ${}_{-1}^0e$ (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.

Chapter 25 Nuclear Chemistry Worksheet

Hussin A.Rothana



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Spreadsheet Chemistry O. Jerry Parker, Gary L. Breneman, 1991 **Holt Chemistry** Ralph Thomas Myers, 2004

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