



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, ${}^0_{-1}\text{e}$. What is the resulting particle?
- 5) What type of decay is the reaction below, and what isotope completes this nuclear equation?
 ${}^{27}_{13}\text{Al} + {}^4_2\text{He} \rightarrow {}^{31}_{15}\text{P} + ?$

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) ${}^{236}_{90}\text{Th}$ (C) ${}^{234}_{90}\text{U}$ (D) ${}^{234}_{90}\text{Th}$ (E) ${}^{234}_{91}\text{Pa}$
- 8) What atom completes this equation? ${}^{30}_{14}\text{Si} + ? \rightarrow {}^{32}_{16}\text{S} + {}^4_2\text{He}$
 (A) ${}^4_2\text{He}$ (B) ${}^2_1\text{H}$ (C) ${}^1_0\text{n}$ (D) ${}^0_{-1}\text{e}$
- 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, ${}^0_{-1}\text{e}$ (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.

Physical Scienceworkbook Chapter Nuclear Chemistry

Wordwise Definitions

Harvey Bernard G



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Dictionary of Nuclear Physics and Nuclear Chemistry Hans Rau,1964

Introduction to Nuclear Physics and Chemistry Bernard G. Harvey,1962 **Principles of Nuclear Chemistry** Peter A. C. McPherson,2017

Nuclear Chemistry Arora, M G,1994

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Introduction to Nuclear Physics and Chemistry Harvey Bernard G,1965 *Essentials Of Nuclear Chemistry* Hari Jeevan Arnikaar,

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