

# Chapter 21 Nuclear Chemistry Test

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Chapter 21: Nuclear Chemistry 1. Alpha particle ( $\alpha$ ) is a helium nucleus (He with  $4/2$ ), so it has a  $2+$  charge. 2. Alpha emission is restricted almost entirely to very heavy nuclei

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Chapter 21; Nuclear Chemistry. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. nrowland. Terms in this set (38) alpha particle. a positively charged atom that is released in the disintegration of radioactive elements and that consists of two protons and two neutrons.

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Chemistry Chapter 21 Nuclear Chemistry Test Review. Flashcard maker : August Dunbar. nucleons. protons and neutrons. nuclide. An atom identified by the number of protons and neutrons in its nucleus. mass defect. The difference between the mass of an atom and the sum of the masses of its protons, neutrons, and

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electrons.

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AP Chemistry CHAPTER 21- Nuclear Chemistry 21.1 Radioactivity

- When nuclei change spontaneously, emitting energy, they are said to be radioactive.
- Nuclear chemistry is the study of nuclear reactions and their uses.
- Nucleons are particles in the nucleus:
- p+: proton
- n<sup>0</sup>: neutron
- Atomic number is the number of p+.

### **AP Chemistry CHAPTER 21- Nuclear Chemistry**

Nuclear Chemistry Nuclear Transformations • Rutherford in 1919

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performed the first nuclear transformation. • The transmutations are sometimes represented by listing in order, the target nucleus, the bombarding particle, the ejecting particle and the product nucleus. • The above equation becomes:  ${}_{14}^{27}\text{Al} + {}_2^4\text{He} \rightarrow {}_{17}^{31}\text{P} + {}_1^1\text{H}$

### **Chapter 21 Nuclear Chemistry - University of Massachusetts ...**

Nuclear Chemistry Chapter 21 Nuclear Chemistry Chemistry, The Central Science , 10th edition Theodore L. Brown; H. Eugene LeMay, Jr.; and Bruce E. Bursten

### **Chapter 21 Nuclear Chemistry - [alpha.chem.umb.edu](http://alpha.chem.umb.edu)**

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## **AP Chemistry Study Guide: Chapter 21, Nuclear Chemistry**

A nuclear fuel. A fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction. The radioactive isotope is contained in tubes called fuel rods. A moderator. A moderator slows neutrons produced by nuclear reactions so that they can be absorbed by the fuel and cause additional nuclear reactions. A coolant.

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Major topics: types of radioactive decay (alpha, beta, gamma, positron production, electron capture), decay series, & rate of decay and half-life calculations.

### **Chapter 21 (Nuclear Chemistry)**

Figure 21.1 Nuclear chemistry provides the basis for many useful diagnostic and therapeutic methods in medicine, such as these positron emission tomography (PET) scans. The PET/computed tomography scan on the left shows muscle activity. The brain

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scans in the center show chemical differences in dopamine signaling in the brains of addicts and nonaddicts.

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Chapter 21:nuclear chemistry Nuclear radiation Marie Curie was a Polish scientist whose research led to many discoveries about radiation and radioactive elements.

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CHAPTER 22 TEST Nuclear Chemistry Class MULTIPLE CHOICE On the line at the left of each statement, write the letter of the choice that best completes the statement or answers the question. After converting units, the nuclear mass defect is equivalent to the a. atomic mass b. electrostatic force c. energy of chemical reaction

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