

Name Key Class \_\_\_\_\_ Date \_\_\_\_\_

## Nuclear Decay

### Types of Radiation

1. Complete the table below to compare the properties of alpha, beta, positron, and gamma radiation.

Name	Alpha	Beta	Positron	Gamma
Greek letter	$\alpha$	$\beta^-$	$\beta^+$	$\gamma$
Symbol	${}^4_2\text{He}$	${}^0_{-1}e$	${}^0_{+1}e$	N/A
Composition	$2p^+$ , $2n^0$	electron	anti-electron	EM wave
Charge	$2+$	$1-$	$1+$	$0$
Stopped by	paper, skin, clothing	wood, glass	wood, glass	thick concrete or lead

### Nuclear Decay Reactions

In problems 2 – 5, fill in the missing particle for each nuclear decay reaction. Then, match each equation to the appropriate type of nuclear decay.



A. alpha emission



B. beta emission



C. electron capture



D. positron emission

In problems 6 and 7, write a balanced equation for each nuclear decay reaction.

6. Decay of radium-223 by alpha ( $\alpha$ ) emission.



7. Decay of iodine-126 by positron ( $\beta^+$ ) emission.



8. How are the atomic number and mass number of a nuclide affected by positron emission?

**Atomic number decreases by one. Mass number stays the same.**

9. How are the atomic number and mass number of a nuclide affected by the emission of gamma radiation?

**Both atomic number and mass number stay the same since gamma radiation has no mass or charge.**

10. Which has a slightly greater mass in a nuclear reaction, the reactants or the products? Why?

**The reactants have a slightly greater mass. In a nuclear reaction, a small amount of mass is converted to energy according to the equation  $E = mc^2$ . The difference in mass is referred to as the mass defect.**

# Chemistry Worksheet Questions On Radioactivity Answers

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## **Chemistry Worksheet Questions On Radioactivity Answers:**

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several guidelines for classroom integration tips for making booktalks more interactive and interesting and selections for further reading

**Chemistry Homework** Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry problems and more

**Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

The Science Teacher, 1994

**Modern Science and the Book of Genesis** James William Skehan, National Science Teachers Association, 1986 Based on the premise that knowledge of evolutionary theory is essential for understanding the natural world this document was designed to assist science teachers and others as they consider the issues that influence the teaching of evolution The position is taken that there is no conflict between data and sound theories based on science and religious beliefs based on the Bible Information and perspectives are presented under the topic headings of 1 The Genesis of Genesis 2 Early Science Interprets Genesis 3 New Data 4 Creationism versus Science and 5 Two Kinds of Knowledge References are listed and the National Science Teacher Association's position statement on the Inclusion of Nonscience Tenets in Science Instruction is included ML

**Laboratory Manual in Physical Geology** American Geological Institute, 1997 This Laboratory Manual in Physical Geology is a richly illustrated user friendly laboratory manual for teaching introductory geology and geoscience

**Principles of Physical Chemistry** David Hutsby Mansfield, 1978

**New York Math: Math B**, 2000

**The National Guide to Educational Credit for Training Programs 2003** (Ace) American Council on Education, American Council on Education, 2003 For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the course was designed L DBL Learning outcomes L DBL Teaching methods materials equipment and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject area s in which credit is applicable L L The introductory section includes ACE Transcript Service information

**Resources in Education**, 1982

EPA Reports Bibliography United States. Environmental Protection Agency, 1979

**Whitaker's Five-year Cumulative Book List**, 1968

*Curriculum Development Library*, 1980

**The Software Encyclopedia 2001**, 2001

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