

Name: _____ Date: _____ Class period: _____

**Unit: Nuclear Chemistry
Test Review**

**What to study?**

- Quizzes: #1
- Homework: worksheets #1-#4
- Notes: Properties of Radiation → Applications of Nuclear Chemistry
- Bell Ringers: Matching, Half-lives, Writing Transmutations

What will the questions be like? What can I expect?

This test will be just like the previous quizzes you have taken.

- | | |
|-------------------|----------------|
| • Matching | • Short answer |
| • Multiple choice | • Calculations |

Sample questions/Important Topics

1. Fill in the best answer for each of the following:

- a) The transformation of one atom into another atom is called _____.
- b) Three types of radiation include _____, _____, and _____.
- c) During radioactive decay, the _____ will emit particles of radiation in order to become more stable.
- d) The reactions inside the sun is an example of a _____ reaction.
- e) If you wanted to block _____ radiation, paper or clothing can be used.
- f) Radioactive isotopes, or _____, have different mass numbers but the same atomic number and will decay over time.
- g) _____ is used to calculate the date of a specimen that is embedded deep within the earth.
- h) _____ is the time it takes for half a sample of nuclei to decay into more stable nuclei.
- i) Fusion reactions release _____ energy than fission reactions.
- j) For elements that have an atomic number less than 20, stable nuclei have a neutron:proton ratio equal to _____.
- k) _____ is the spontaneous emission of radiation by an unstable nucleus.
- l) A common isotope used to diagnose thyroid disease is called _____.
- m) During _____ decay, the atomic number will increase by 1 and the mass number will remain unchanged.
- n) _____ used alpha particles in his Gold Foil Experiment.

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