

(ANSWER KEY)

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.

- | | |
|---|--|
| <ul style="list-style-type: none"> • Matching • Multiple choice | <ul style="list-style-type: none"> • Short answer • 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 **transmutation**.
- b) Three types of radiation include **gamma**, **beta**, and **alpha**.
- c) During radioactive decay, the **nucleus** will emit particles of radiation in order to become more stable.
- d) The reactions inside the sun is an example of a **fusion** reaction.
- e) If you wanted to block **alpha** radiation, paper or clothing can be used.
- f) Radioactive isotopes, or **radioisotopes**, have different mass numbers but the same atomic number and will decay over time.
- g) **Uranium-238** is used to calculate the date of a specimen that is embedded deep within the earth.
- h) **Half-life** is the time it takes for half a sample of nuclei to decay into more stable nuclei.
- i) Fusion reactions release **more** energy than fission reactions.
- j) For elements that have an atomic number less than 20, stable nuclei have a neutron:proton ratio equal to **1 (one)**.
- k) **Radioactivity** is the spontaneous emission of radiation by an unstable nucleus.
- l) A common isotope used to diagnose thyroid disease is called **Iodine-131**.
- m) During **beta** decay, the atomic number will increase by 1 and the mass number will remain unchanged.
- n) **Rutherford** used alpha particles in his Gold Foil Experiment.

Fission And Fusion Possibilities Worksheet Answers

Jin-Ying Zhang



Fission And Fusion Possibilities Worksheet Answers:

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it is time to focus us on cold nuclear fusion We need to bomb the fuel with accelerated deuterium nuclei The fuel will be made from heavy water and lithium The optimal proportion of lithium will be tested It would be preferable to keep fuel in the plasma state Research into developing controlled thermonuclear fusion for civil purposes also began in earnest in the 1950s and it continues to this day Two projects the National Ignition Facility and ITER are in the process of reaching breakeven after 60 years of design improvements developed from previous experiments The best results were obtained with the Tokamak type installations Interesting Possibilities of Fusion--fission ,1974 **Fusion-Fission Blanket Options for the LIFE Engine** ,2010 **Alternative Sources of Energy** ,2013 **Nuclear Fusion** Henry Rainsford Hulme,Antony McB. Collier,1969 *Potential Role of Fission--fusion Systems in the Electric Economy* ,1975

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