

## Chapter 21: NUCLEAR CHEMISTRY - Study Guide

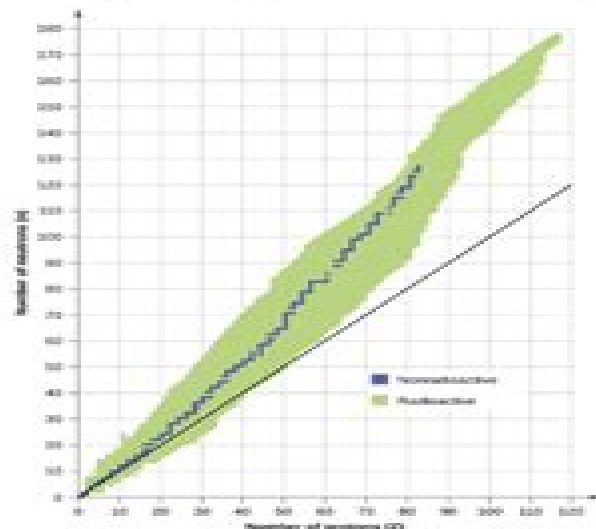
### CHEM 1412 Chemistry OpenStax

#### Answer

1. A nuclide refers to \_\_\_\_\_.
2. Complete the following table:

|               | <i>symbol</i> | <i>definition</i>     |
|---------------|---------------|-----------------------|
| Mass number   |               | #protons + # neutrons |
| Atomic number | <i>Z</i>      |                       |

3. In the graph below (Figure 21.2 in OpenStax), the blue data points represent stable nuclides. The straight line represents a 1:1 neutron:proton ratio.



Heavy nuclides need a \_\_\_\_\_  
(*higher/lower*) ratio of neutrons to protons to be stable.

Are even or odd numbers of protons and neutrons more likely to be stable? \_\_\_\_\_

What are **magic numbers**?

4. Which type of radioactive decay changes the mass number AND the atomic number?

# Guide Answers Nuclear Chemistry Ch 25

**Robert K. Wismer**



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