

Name _____
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The Atom and Nuclear Chemistry Review ANSWERS

- Neutrons are neutral, but protons are positive and electrons are negative.
- a) Francium-212 How many neutrons? 125 How many protons? 87
b) $^{64}_{27}\text{Co}$ How many neutrons? 37 How many protons? 27
c) Give the **symbol** and **hyphenated name** for an atom with 20 protons and 22 neutrons
 $^{42}_{20}\text{Ca}$ Calcium-42
- What was the first element found to be radioactive? uranium
- What is happening when an element is radioactive?
The atom is spitting out particles from its nucleus.
- What role do the neutrons play in keeping the nucleus of an atom stable? The stop the protons in the nucleus from "fighting" (i.e. from repelling each other)
- Atoms with more than 83 protons in their nucleus are always radioactive.
- Define **background radiation**. The radiation we receive from both natural and human-made sources.
- What are some sources of naturally occurring radiation?
Rocks, space, food, air
- What are some human-made sources of radiation?
x-rays, TV's, nuclear power plants, nuclear fallout from nuclear weapons testing, nuclear medicine
- What is an alpha particle? A helium-4 atom

Write its symbol. ^4_2He
- What is a beta particle? A fast moving electron

Write its symbol. $^0_{-1}\text{e}$
- Which is more harmful, an alpha particle or a beta particle? Why? How can each be stopped?
An alpha particle can be stopped by a piece of paper, but to stop a beta particle something thicker like a book is needed. Because a beta particle is more penetrating, the beta particle is more dangerous.
- Where do alpha and beta particles come from? the nucleus
- When a beta particle forms, a neutron turns into a proton.

21 Review Modern Chemistry Answers Nuclear Chemistry

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