

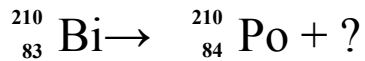
Name: _____

Period: _____

HW—22:1L — Nuclear Power
Mr. Murray, IPC
www.aisd.net/smurray

Assigned: Mon., 12/1/03
Due: Wedn., 12/3/03

1. What particle decay is this?



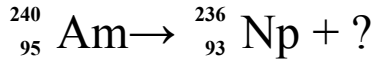
3. Which is worse for the environment: fusion or fission? Why?

5. Give the three kinds of nuclear radiation and what they are:

Kind

What it is

2. What particle decay is this?



4. If I have 300 kg of carbon-14. Its half-life is 5,730 years. How much carbon 14 will there be in 5,730 years?

Do Vocabulary on the Back

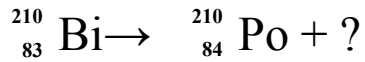
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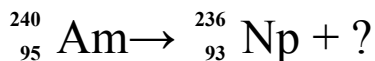
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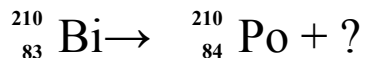
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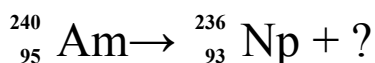
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Name: _____

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**Vocabulary
(don't forget
other side)**

Alpha Particle

Gamma Ray

Beta Particle

Radioactive

Uranium

Chain Reaction

Fission

Fusion

Half-life

Carbon Dating

Nucleons

1. A neutron splitting into a proton and an electron. Medium energy: wood or clothing can stop them.
2. A helium atom (2 protons and 2 neutrons). Lowest in energy. Can be stopped by paper or skin.
3. When an atom gives off energy or nuclear particles (like alpha particles).
4. Bringing together two nuclei to make a bigger atom in a nuclear reaction.
5. A method of using the half-life of a radioactive isotope to determine the age of ancient objects up to 50,000 years old.
6. When one nuclear reaction causes another, which causes another, etc. It allows nuclear reactions to sustain themselves.
7. High energy radiation. Can cause great harm to biological organisms. Hard to stop (takes lead or many feet of concrete).
8. The splitting of an atom into smaller atoms in a nuclear reaction.

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