



Name: _____ Date: _____

Student Exploration: Nuclear Decay

Background: Alpha particles, beta particles, gamma rays, and neutrons are particles that are emitted from unstable nuclei. Alpha particles consist of two protons and two neutrons, beta particles consist of one electron or one positron, gamma rays consist of high-energy photons, and neutrons consist of one neutron.

Prior Knowledge Questions (What do you already know about this topic?)

1. What are some properties of atoms, isotopes, and radioactive materials? (What do you know about them?)

Particle	Composition	Charge	Approximate mass
Alpha	2 protons, 2 neutrons	+2	4 u
Beta	1 electron or 1 positron	-1 or +1	1/1836 u
Gamma	High-energy photon	0	0

1. The **atomic number** of an atom is equal to the number of protons in the nucleus.

Alpha particles have 2 protons, and β particles have 1 electron. What is the atomic number of the parent? **10**

2. The **mass number** of an atom is equal to the sum of the number of protons and neutrons in the nucleus.

Alpha particles have 2 protons and 2 neutrons, and β particles have 1 electron.

During the Activity

1. What are some properties of alpha particles, beta particles, gamma rays, and neutrons? (What do you know about them?)

Alpha particles: They consist of two protons and two neutrons, and they have a positive charge.

2. What are some properties of alpha particles, beta particles, gamma rays, and neutrons? (What do you know about them?)

3. Alpha particles have a positive charge, and beta particles have a negative charge. What is the charge of the parent? **0**

Alpha particles have a positive charge, and beta particles have a negative charge.

4. Alpha particles have a mass of 4 u, and beta particles have a mass of 1/1836 u. What is the mass of the parent? **4**

Alpha particles have a mass of 4 u, and beta particles have a mass of 1/1836 u.

5. Alpha particles have a positive charge, and beta particles have a negative charge. What is the charge of the parent? **0**



10
4
0
4
1/1836



Answer Sheet To Student Exploration Nuclear Decay In Explore Learning

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