



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.

2. Alpha particles have 2 protons and 2 neutrons. What is the mass number of the parent? (What is the mass number of the daughter?)

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

4. Alpha particles have 2 protons and 2 neutrons. What is the mass number of the daughter?

Alpha Decay

Alpha decay occurs when an unstable nucleus emits an alpha particle. Alpha particles are helium nuclei, consisting of two protons and two neutrons.

Background: The decay of radioactive materials generally follows a predictable pattern. The half-life of a radioactive material is the time it takes for half of the material to decay.

Alpha decay is a type of radioactive decay in which an alpha particle is emitted from the nucleus. Alpha particles are helium nuclei, consisting of two protons and two neutrons.



1. Alpha particle
2. Beta particle
3. Gamma ray
4. Neutron

1. Alpha particles have 2 protons and 2 neutrons. What is the mass number of the parent? (What is the mass number of the daughter?)

2. Alpha particles have 2 protons and 2 neutrons. What is the mass number of the daughter?

3. Alpha particles have 2 protons and 2 neutrons. What is the mass number of the daughter?

4. Alpha particles have 2 protons and 2 neutrons. What is the mass number of the daughter?

Background: Alpha particles are helium nuclei, consisting of two protons and two neutrons. They are emitted from the nucleus of a radioactive material.



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Sabine Zange



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