



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	Two protons and two neutrons	+2	4 u
Beta	One electron or one 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 2 neutrons. What is the atomic number of the parent? **82**

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. What is the mass number of the parent? **206**

Alpha Decay

Alpha decay occurs when an unstable nucleus emits an **alpha particle**, which consists of two protons and two neutrons. It is written as α or ${}^4_2\text{He}$.

Background: The decay of radioactive materials generally involves the emission of particles and/or energy.

Alpha particles consist of two protons and two neutrons. They are emitted from the nucleus of a radioactive material. Alpha decay is a type of radioactive decay.



1. What is the charge of an alpha particle? **+2**

2. Alpha particles have a mass of 4 atomic mass units (amu). What is the mass of the parent nucleus? **206**

Alpha particles have a mass of 4 amu. What is the mass of the daughter nucleus? **202**

3. Alpha particles have a charge of +2. What is the charge of the parent nucleus? **+82**

Alpha particles have a charge of +2. What is the charge of the daughter nucleus? **+80**

Alpha particles are made of two protons and two neutrons. They are emitted from the nucleus of a radioactive material.



Answer Sheet To Student Exploration Nuclear Decay In Explore Learning

Annelies Wilder-Smith



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