



Name: _____ Date: _____

Student Exploration: Nuclear Decay

Background: Alpha particles, beta particles, gamma rays, and neutrons are particles that are emitted from unstable nuclei. They are emitted from the nucleus of an atom.

Pre-Knowledge Questions: (You will need to think using the Gizmo.)

1. What are the three types of particles that are emitted from the nucleus of an atom? **Alpha particles, beta particles, and gamma rays.**

2. What are the three types of particles that are emitted from the nucleus of an atom? **Alpha particles, beta particles, and gamma rays.**

Particle	Charge	Mass	Approximate range
Alpha	+2	4 amu	10 cm
Beta	-1	1 amu	10 cm
Gamma	0	0 amu	10 cm

3. The **alpha particle** is a type of particle that is emitted from the nucleus of an atom.

Alpha particles have a positive charge of +2. What is the mass number of the alpha particle? **4**

4. The **beta particle** is a type of particle that is emitted from the nucleus of an atom.

Beta particles have a negative charge of -1. What is the mass number of the beta particle? **1**

Alpha Particles

Alpha particles are made up of two protons and two neutrons. They are emitted from the nucleus of an atom.

Background: The decay of radioactive isotopes is a process that is used to date objects.

Alpha particles are made up of two protons and two neutrons. They are emitted from the nucleus of an atom.



100% Alpha
100% Beta
100% Gamma
100% Neutron

5. Alpha particles have a positive charge of +2. What is the mass number of the alpha particle? **4**

Alpha particles have a positive charge of +2. What is the mass number of the alpha particle? **4**

6. Alpha particles have a positive charge of +2. What is the mass number of the alpha particle? **4**

Alpha particles have a positive charge of +2. What is the mass number of the alpha particle? **4**

Alpha particles are made up of two protons and two neutrons. They are emitted from the nucleus of an atom.



Explore Learning Nuclear Decay Answer Sheet

Daniel F McAuley



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