

Student Exploration: Nuclear Decay

Before [opening the simulation](#), click on the "Nuclear Decay" button in the top right corner.

Readability: Define particle, atomic number, beta particle, alpha particle, gamma ray, energy, mass number, nuclear decay, radioactive, unstable particle.

Prerequisite: Knowledge of atomic structure and basic math skills.

Learning Goals: Understand the process of nuclear decay and the types of particles emitted.

Question: How does the process of nuclear decay affect the stability of an atom?

Particle	Symbol	Charge	Approximate Mass
Alpha	α	+2	4.0015
Beta	β	-1	0.0005
Gamma	γ	0	0.0000

1. The **alpha particle** is a type of particle that is emitted during nuclear decay.

What is the mass number of the alpha particle? (Hint: Look at the table above.)

2. The **beta particle** is a type of particle that is emitted during nuclear decay.

What is the mass number of the beta particle? (Hint: Look at the table above.)

Alpha Particle:

Alpha particles are made of two protons and two neutrons. They have a mass number of 4 and a charge of +2.

Beta Particle: Beta particles are made of one electron and one positron. They have a mass number of 0 and a charge of -1 or +1.

Gamma rays are high-energy photons. They have no mass and no charge.



3. The **alpha particle** is a type of particle that is emitted during nuclear decay.

What is the mass number of the alpha particle? (Hint: Look at the table above.)

4. The **beta particle** is a type of particle that is emitted during nuclear decay.

What is the mass number of the beta particle? (Hint: Look at the table above.)

Nuclear Decay Explore Learning Exploration Guide Answers

Robert R. Redfield



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