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## Balancing Nuclear Reaction Equations Pogil Answer Key

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• Use the conservation laws to find an unknown in a nuclear reaction equation. • Write a balanced nuclear equation for a natural transmutation. Prerequisites • atomic symbols including mass number, atomic number, and charge Information 4 2 He = a helium nucleus, also known as an alpha particle 0 1 e - = an electron, also known as a beta particle when emitted by a nucleus Model The following are two nuclear reaction equations:  
$${}_{87}^{220}\text{Fr} \rightarrow {}_{85}^{216}\text{At} + {}_{2}^{4}\text{He}$$
$${}_{16}^{7}\text{N} \rightarrow {}_{0}^{0} + {}_{-1}^{0}\text{e}$$

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Pogil Balancing Nuclear Reaction Equations  
Using correctly balanced equations is important when trying to understand nuclear reactions. All equations need to be balanced to conform to two conservation laws: the mass number is conserved, and the electrical charge is conserved.

*Pogil Balancing Nuclear Reaction Equations  
Answer*

POGIL: Nuclear Reaction Equations  
(Transmutations) Why? Nuclear reactions are going on all around us. Using correctly balanced equations is important when trying

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to understand nuclear reactions. All equations need to be balanced to conform to two conservation laws: the mass number is conserved, and the electrical charge of the nucleus is conserved.

## *Balancing Nuclear Reaction Equations (Transmutations)*

Use the conservation laws to find an unknown in a nuclear reaction equation. Write a balanced nuclear equation for a natural transmutation. Prerequisites atomic symbols including mass number, atomic number, and charge Information  $4\text{ He}$  = a helium nucleus,

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also known as an alpha particle = an electron, also known as a beta particle when emitted by a nucleus Model The following are two nuclear reaction equations:  $4\text{ He} + 216\text{ At} \rightarrow 85\text{ Br} + 160\text{ IV} + \dots$

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Nuclear equations are used to communicate about natural radioactive decay and other nuclear events such as fission, fusion, and transmutation. All nuclear equations follow a simple pair of rules. First, the sum of all atomic numbers on one side of the equation must equal the sum of all atomic numbers on



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the other side of the equation.

*POGIL Activity: Nuclear Equations*

Pogil Balancing Nuclear Reaction Equations  
Using correctly balanced equations is important when trying to understand nuclear reactions. All equations need to be balanced to conform to two conservation laws: the mass number is conserved, and the electrical charge is conserved. Pogil Balancing Nuclear Reaction Equations Answer

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These reactions result either in the nucleus splitting (fission) or the combination of two or more nuclei to form a third, different nucleus (fusion). Balancing Nuclear Equations: Matter must be conserved including all  $p^+$  &  $n^0$ . Example: Decay reaction ( $\alpha$  decay)  ${}_{86}^{215}\text{Rn} \rightarrow {}_{84}^{211}\text{Po} + {}_2^4\text{He}$  Fission Reaction  ${}_{92}^{235}\text{U} + {}_0^1\text{n} \rightarrow {}_{36}^{92}\text{Kr} + {}_{56}^{141}\text{Ba} + 3{}_0^1\text{n}$

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Nuclear Equations Nuclear fission provides the energy in nuclear power plants and fusion is the source of the sun's energy. The use

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Balancing Chemical Equations Why? Period: In a chemical reaction, matter cannot be created or destroyed. The mass of the reactants in a chemical reaction must be equal to the mass of the products. It is not possible to start a chemical reaction with 2 atoms of hydrogen and produce 2 atoms of gold.

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## *Balancing Nuclear Reaction Equations Pogil Answers*

A balanced nuclear reaction equation indicates that there is a rearrangement during a nuclear reaction, but of subatomic particles rather than atoms. Nuclear reactions also follow conservation laws, and they are balanced in two ways: The sum of the mass numbers of the reactants equals the sum of the mass numbers of the products.

### *21.2 Nuclear Equations - Chemistry*

A balanced nuclear equation is one where the sum of the mass numbers (the top number in

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notation) and the sum of the atomic numbers balance on either side of an equation.

Nuclear equation problems will often be given such that one particle is missing. Instead of using the full equations, in many situations a compact notation is used to describe nuclear reactions. Key Terms. baryon: A heavy subatomic particle created by the binding of quarks by gluons; a hadron containing three quarks. They ...

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nuclear equation for a natural transmutation.  
Prerequisites • atomic

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beta minus. Bombarding plutonium-239 with an alpha particle creates an isotope of curium. Balance the equation.  ${}_{94}^{239}\text{Pu} + {}_2^4\text{He} \rightarrow$  (a)/(b)Cm + (c)/(d)n. Identify the values for the unknown letters. a - 242. b - 96. c - 1. d - 0.

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Acces PDF Pogil Balancing Nuclear Reaction Equations Answer. chemical equations POGIL This can be accomplished through many types of reactions, including fission and fusion. Nuclear transformations always obey two fundamental conservation laws: (1) mass number is conserved and (2) electrical charge is conserved.

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