

Flinn Scientific POGIL™ Activity

Isotopes

Are all atoms of an element alike?

Why?

The following activity will help you learn the important structural characteristics of an atom. How do we classify atoms? How does the combination of subatomic particles affect the mass and charge of an atom? What are isotopes? This is just a sampling of what we will address. Throughout this activity you will want to keep both Model 1 and a periodic table handy.

Model 1

Isotopes of Hydrogen			
Symbol	${}^1\text{H}$	${}^2\text{H}$	${}^3\text{H}$
Atomic Diagram with Name	 Hydrogen-1 (protium)	 Hydrogen-2 (deuterium)	 Hydrogen-3 (tritium)
Number of Protons	1	1	1
Number of Neutrons	0	1	2
Isotopes of Carbon			
Symbol	${}^{12}\text{C}$	${}^{13}\text{C}$	${}^{14}\text{C}$
Atomic Diagram with Name	 Carbon-12	 Carbon-13	 Carbon-14
Number of Protons	6	6	6
Number of Neutrons	6	7	8
Isotopes of Magnesium			
Symbol	${}^{24}\text{Mg}$	${}^{25}\text{Mg}$	${}^{26}\text{Mg}$
Atomic Diagram with Name	 Magnesium-24	 Magnesium-25	 Magnesium-26
Number of Protons	12	12	12
Number of Neutrons	12	13	14

DATA

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Atoms Their Isotopes Pogil Answer Key

William Denham Verschoyle

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The Atomic Structures of the Elements with Their Isotopes Philip O. Vulliet,1935 **The Evolution of Atoms and Isotopes** William Denham Verschoyle,1922 *Structure of the Atom, Relative Atomic Mass & Isotopes* ,2006 **The Fabulous Isotopes** Robin McKown,2012-07-01 Explanation Of The Atomic Theory With A History And The Uses Of Isotopes From The Early Days Of Curie To 1962 **Atoms, elements and isotopes** ,1971

Decoding **Atoms Their Isotopes Pogil Answer Key**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Atoms Their Isotopes Pogil Answer Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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