

# Atoms & Isotopes

Name \_\_\_\_\_

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An atom is the smallest particle of an element. Atoms are made up of subatomic particles: protons, neutrons and electrons.

Subatomic Particle	Mass (amu- atomic mass unit)	Charge	Location
Proton	1	+1	nucleus
Neutron	1	0	nucleus
Electron	0	-1	In orbits around nucleus

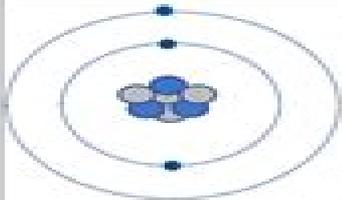
An atom is neutral (no charge); the number of protons equal the number of electrons.

The mass number of the atom is the sum of the protons and neutrons.

The atomic number is the number of protons. This number will identify the atom.

Isotopes are atoms with the same atomic number but different number of neutrons.

Complete the missing information. The first one is completed as an example.

Atomic Structure	Atomic Calculations	Identity	Isotope	Isotope Notation
<ul style="list-style-type: none"> <li><span style="color: blue;">●</span> Protons</li> <li><span style="color: grey;">●</span> Neutrons</li> <li><span style="color: blue;">●</span> Electrons</li> </ul>	Atomic # = #P #P = #e Mass # = #P + #N	Determine the atomic number and identify the atom by using the periodic table.	Symbol-Mass	Mass <sub>#P</sub> X
	#Protons = 3 Atomic # = 3 #electrons = 3 #neutrons = 4 Mass # = 7	Li  Lithium	Li-7	<sup>7</sup> <sub>3</sub> Li
	#Protons = 9 Atomic # = 9 #electrons = 9 #neutrons = 10 Mass # = 19	F  Fluorine	F-19	<sup>19</sup> <sub>9</sub> F



# Chemthink Answer Key Isotopes

**S Marginson**



**Chemthink Answer Key Isotopes:**

## Decoding **Chemthink Answer Key Isotopes**: 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 "**Chemthink Answer Key Isotopes**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect 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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