

**Learning Target:** Use isotope notation to determine: element name/symbol, atomic number, number of electrons, number of neutrons, number of protons, mass number, atomic number, atomic mass.  
Isotope Notation:

1. Here are three isotopes of an element:  ${}_6^{12}\text{C}$        ${}_6^{13}\text{C}$        ${}_6^{14}\text{C}$
- The element is: \_\_\_\_\_carbon\_\_\_\_\_
  - The number 6 refers to the \_\_\_\_\_atomic number\_\_\_\_\_
  - The numbers 12, 13, and 14 refer to the \_\_\_\_\_atomic mass\_\_\_\_\_
  - How many protons and neutrons are in the first isotope? \_\_\_\_\_P=6 N=6\_\_\_\_\_
  - How many protons and neutrons are in the second isotope? \_\_\_\_\_P=6 N=7\_\_\_\_\_
  - How many protons and neutrons are in the third isotope? \_\_\_\_\_P=6 N=7\_\_\_\_\_

2. Complete the following chart:

Isotope name	atomic #	mass #	# of protons	# of neutrons	# of electrons	Isotope Notation
uranium-235	92	235	92	143	92	${}_{92}^{235}\text{U}$
uranium-238	92	238	92	146	92	${}_{92}^{238}\text{U}$
boron-10	5	10	5	5	5	${}_5^{10}\text{B}$
boron-11	5	11	5	6	5	${}_5^{11}\text{B}$

- 3.

Element	Symbol	Atomic Number	Number of electrons	Number of Neutrons	Mass number	Isotope Name	Isotope Notation
Helium	He	2	2	2	4	Helium-4	${}_2^4\text{He}$
Titanium	Ti	22	22	28	50	Titanium-50	${}_{22}^{50}\text{Ti}$
Tantalum	Ta	73	73	108	181	Tantalum-181	${}_{73}^{181}\text{Ta}$
Gallium	Ga	31	31	39	70	Gallium-70	${}_{31}^{70}\text{Ga}$
Carbon	C	6	6	7	13	Carbon-13	${}_6^{13}\text{C}$
Radium	Ra	88	88	118	226	Radium-226	${}_{88}^{226}\text{Ra}$
Bismuth	Bi	83	83	127	210	Bismuth-210	${}_{83}^{210}\text{Bi}$

# Isotopes And Ions Worksheet Answers

**M Planty**



## **Isotopes And Ions Worksheet Answers:**

## The Enigmatic Realm of **Isotopes And Ions Worksheet Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Isotopes And Ions Worksheet Answers** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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