

Unit 2: Atoms and Elements
AP Chemistry
The Nuclear Atom

ALL of the answers to this worksheet can be **logically** figured out by looking at the **Schematic Diagrams for Various Atoms**, the **Periodic Table**, and **discussing** with your partners. All of the information you need is here somewhere. Determine each answer and be able to give convincing reasons for each answer. Good luck.

1. How many **protons** are found in ^{12}C ? **6** ^{13}C ? **6** ^{14}C ? **6**
2. How many **neutrons** are found in ^{12}C ? **6** ^{13}C ? **7** ^{14}C ? **7**
3. How many **electrons** are found in ^{12}C ? **6** ^{13}C ? **6** ^{14}C ? **7**
4. Based on the model,
 - a) what do all carbon atoms (and ions) have in common?
Same number and types of protons.
 - b) what do all hydrogen atoms (and ions) have in common?
Same number and types of protons.
5. What is the significance of the atomic number, Z , above each atomic symbol in the periodic chart?
It tells us the number of protons located in the nucleus of an atom of that particular element.
6. What do all nickel (Ni) atoms have in common?
Same number and types of protons.
7. How is the mass number, A , (left-hand superscript next to the atomic symbol) determined?
By adding the protons and neutrons of an atom together.
8. What structural feature is different in isotopes of a particular element?
The number of neutrons that are present.
9.
 - a) What feature distinguishes a neutral atom from an ion?
The number of electrons that are present.
 - b) How is the charge on an ion determined?
By subtracting the number of electrons from the number of protons in the atom.
10. Where is most of the mass of an atom, within the nucleus or outside of the nucleus? Explain your reasoning.
Within the nucleus since that is where the protons and neutrons are located.
11. Complete the following table:

Isotope	Atomic Number Z	Mass Number A	Number of electrons
^{31}P	15	31	15
^{18}O	8	18	8
$^{39}\text{Y}^{+}$	19	39	18
$^{58}\text{Ni}^{2+}$	28	58	26

Nuclear Chemistry Answer Key

Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Nuclear Chemistry Answer Key:

The Top Books of the Year Nuclear Chemistry Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year.

The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Nuclear Chemistry Answer Key : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. **The Secret History** is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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