

Discussion corner!

1. Why do people of the same family have specific names although they still share a common family name?
2. Why do you think people normally hold their family names in high regard?

I have discovered that...

Family names mean that people belong to a particular ancestry. Members of similar ancestries always have specific names that define them. Comparatively, even though atoms of the same element have the same number of protons, they can have different numbers of neutrons.

The number of protons in the nucleus of the atom is always referred to as the **atomic number**.

The symbol for the atomic number is (**Z**).

When the total number of protons and neutrons are added we get the **mass number**.

The symbol for mass number is (**A**).

We can use the numbers on any atom to work out the number of protons, neutrons and electrons.

Using the relationship:

$$A = Z + N$$

Where **N** is the number of neutrons in an atom, we can work out the number of neutrons as follows.

Example

The mass number of sodium is 23 and the number of protons in its atom is 11. Calculate the number of neutrons in an atom of sodium.

If $A = Z + N$ then $N = A - Z$

Therefore, $N = 23 - 11 = 12$, the number of neutrons is hence 12.

The difference in number of neutrons leads to difference in mass number. One element may have more than one type of atom based on differences in number of neutrons. Such atoms are known as **isotopes**.

Isotopes have the same chemical behaviour but slightly different physical properties.

Example:

There are two isotopes of chlorine.

- Chlorine – 37
- Chlorine – 35

With the knowledge of mass number, atomic number and the chemical symbol, an atom of an element can be represented using the symbol of the element. On the symbol, mass number is written as a superscript while the atomic number is written as a subscript. Both are written before the symbol.



Electronic configuration/Energy level diagram of first 20 elements of periodic table

Energy level is a possible location around the nucleus of an atom where electrons are found. They are represented as $n = 1, 2, 3$ etc as shown in the following figure. There are 7 possible energy levels in atoms.

Olevel Intergrated Science Notes

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Olevel Intergrated Science Notes Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Olevel Intergrated Science Notes**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Olevel Intergrated Science Notes

1. Understanding the eBook Olevel Intergrated Science Notes
 - The Rise of Digital Reading Olevel Intergrated Science Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Olevel Intergrated Science Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Olevel Intergrated Science Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Olevel Intergrated Science Notes
 - Personalized Recommendations
 - Olevel Intergrated Science Notes User Reviews and Ratings
 - Olevel Intergrated Science Notes and Bestseller Lists
5. Accessing Olevel Intergrated Science Notes Free and Paid eBooks

- Olevel Intergrated Science Notes Public Domain eBooks
- Olevel Intergrated Science Notes eBook Subscription Services
- Olevel Intergrated Science Notes Budget-Friendly Options
- 6. Navigating Olevel Intergrated Science Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Olevel Intergrated Science Notes Compatibility with Devices
 - Olevel Intergrated Science Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Olevel Intergrated Science Notes
 - Highlighting and Note-Taking Olevel Intergrated Science Notes
 - Interactive Elements Olevel Intergrated Science Notes
- 8. Staying Engaged with Olevel Intergrated Science Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Olevel Intergrated Science Notes
- 9. Balancing eBooks and Physical Books Olevel Intergrated Science Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Olevel Intergrated Science Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Olevel Intergrated Science Notes
 - Setting Reading Goals Olevel Intergrated Science Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Olevel Intergrated Science Notes
 - Fact-Checking eBook Content of Olevel Intergrated Science Notes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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