



Fig 5.3. Energy Levels

- The first energy level (labelled 1) can hold up to only two electrons.
- The second energy level (labelled 2) can hold a maximum of eight electrons. This energy level is filled after the first energy level and before the third level.
- The third energy level (labelled 3) can hold a maximum of 18 electrons, however when 8 electrons are in the third level there is a degree of stability; and other electrons are added to the fourth energy level.
- Electrons must first fill the first energy level before they start occupying the second energy level.

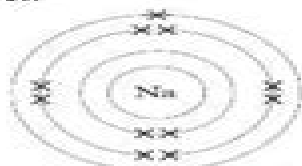


Fig 5.4 Shell model for sodium (Na)

Number of protons = 11, number of electrons = 11

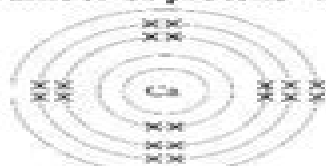


Fig 5.5 Shell model for calcium (Ca)

Number of protons = 20, number of electrons = 20

*Atomic number, mass numbers, sub-atomic particles and electronic configuration of the first 20 elements in the Periodic Table*

# Olevel Intergrated Science Notes

**M Walker**



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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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