

CHEMISTRY

SS2 FIRST TERM E NOTE

SCHEME OF WORK

1. **Revision/ periodic law:** periodic classification into blocks and families
2. **The Periodic Trends:** Down the group and across the period, Atomic size, Ionic size, Ionization energy, Electron affinity, electro negativity, Diagonal relationship in the properties of elements in the periodic table.
3. **Oxidation and reduction (Redox Reaction):** Definition of terms, Relationship between oxidation number and IUPAC naming
4. **Identification of oxidizing and reducing agents,** Balancing of Redox equation in acidic and alkaline media
5. **Ionic Theory:** Distinguish between: electrovalent and covalent compounds, Electrolytes and non-electrolytes, weak and strong electrolytes, conductors and non-conductors.
6. **Electrolysis:** meaning of electrolysis, terminologies/electrolysis and electrolytes, factors affecting the preferential discharge of ions
7. **Electrolysis of specified electrolytes:** acidified water (H_2SO_4), Copper (II) tetraoxosulphate (VI) solution, Brine (NaCl) solution, Project work: construction of electrolytic cell and electrochemical cells and uses of electrolysis
8. **Electrochemical cells:** standard electrode potential, drawing and writing of cell diagrams – metal/metal ion systems, e.m.f of cells – electrochemical cells as a combination of two half – cell, calculation of e.m.f of cell.
9. **Application of electrochemical cells:** Distinction between primary and secondary cells, Types of electrochemical cells.
10. Faraday's laws of electrolysis – calculation based on the laws.
11. Revision
- 12 & 13. Examination

WEEK 1 THE PERIODIC TABLE

Periodic table is the arrangement of chemical elements in order of their atomic numbers. Atomic number, Z , of an element is the number of protons in one atom of that element. It can also arrangement of elements in rows and columns in a table. Any systematic study must be based on a good system of classification. In chemistry, classification of elements began with **Anthony Lavoisier**, whose classification was essentially into metals and non-metals. Many scientists have attempted to classify chemical elements based on their properties. They include **Newland**, **Lothar Meyer**, **Dobereiner** and **Dmitri**

Chemistry Ss2 Secondscheme

S Marginson



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Chemistry Ss2 Secondscheme Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chemistry Ss2 Secondscheme**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Chemistry Ss2 Secondscheme

1. Understanding the eBook Chemistry Ss2 Secondscheme
 - The Rise of Digital Reading Chemistry Ss2 Secondscheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Ss2 Secondscheme
 - 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 eBook Chemistry Ss2 Secondscheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Ss2 Secondscheme
 - Personalized Recommendations
 - Chemistry Ss2 Secondscheme User Reviews and Ratings

- Chemistry Ss2 Secondscheme and Bestseller Lists
- 5. Accessing Chemistry Ss2 Secondscheme Free and Paid eBooks
 - Chemistry Ss2 Secondscheme Public Domain eBooks
 - Chemistry Ss2 Secondscheme eBook Subscription Services
 - Chemistry Ss2 Secondscheme Budget-Friendly Options
- 6. Navigating Chemistry Ss2 Secondscheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemistry Ss2 Secondscheme Compatibility with Devices
 - Chemistry Ss2 Secondscheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Ss2 Secondscheme
 - Highlighting and Note-Taking Chemistry Ss2 Secondscheme
 - Interactive Elements Chemistry Ss2 Secondscheme
- 8. Staying Engaged with Chemistry Ss2 Secondscheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Ss2 Secondscheme
- 9. Balancing eBooks and Physical Books Chemistry Ss2 Secondscheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Ss2 Secondscheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chemistry Ss2 Secondscheme
 - Setting Reading Goals Chemistry Ss2 Secondscheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemistry Ss2 Secondscheme
 - Fact-Checking eBook Content of Chemistry Ss2 Secondscheme
 - 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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