

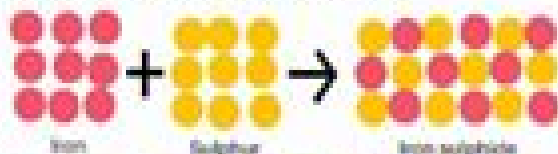
Topic 2: Chemical Change (P 114-129)

Unit 1: Physical & Chemical Change

- Physical change = change in matter that can be reversed.
- 2 substances that are mixed and can be separated by physical means.
- E.g. solid water (ice) is arranged in crystal lattice.
 - Heat breaks the lattice - transforming it into liquid water and gas (water vapor).
 - Atoms in water remain bonded due to strong forces.



- Chemical change = changing something so that it can't be changed back to its original state.
- E.g. heating iron and sulphur together creates a brown, sticky substance called iron sulphide (FeS).
 - This new substance has different properties from the old one (FeS isn't magnetic).
 - Heating sulphur with iron causes atoms to break apart and rejoin in a strong chemical bond - new lattice formed.



- Chemical changes require more energy than physical ones.

Physical Change	Chemical Change
Easy to reverse.	Difficult to reverse.
No new chemical substances form.	New chemical substances form.
Require small amounts of energy.	Require large amounts of energy.

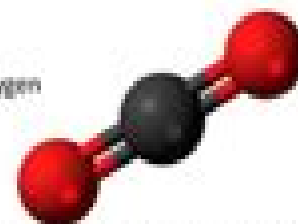
Unit 2: Conservation of Atoms During Chemical Change

Law of Conservation of Matter

- No. of atoms doesn't change when a chemical reaction occurs.
- No. molecules may change.
- Law of conservation of matter = mass of reactants and mass of products stays the same.

Law of Constant Proportions

- Law of constant proportions = a chemical compound always contains the same elements in fixed proportions by mass.
- E.g. CO₂:
 - Relative atomic mass of carbon = 12.
 - Relative atomic mass of oxygen = 16 (2 oxygen atoms required in CO₂).
 - Total relative atomic mass of CO₂ is 12 + 16 + 16 = 44.



- Ratio of carbon to oxygen remains constant - any mass of CO₂ will be $\frac{12}{44}$ carbon and $\frac{32}{44}$ oxygen.
- Ratio of mass of carbon to oxygen is always 12:32 or 3:8 in any amount of CO₂, irrespective of how it is formed.

Unit 3: Representing Chemical Change

Balanced Chemical Equations

- Chemical change is represented by chemical equations.
- Substances on the left of the arrow = reactants.
- Substances on the right of the arrow = products.

Grade 10 Physical Science 2014 Exemplar

Kathleen Armour



Grade 10 Physical Science 2014 Exemplar:

The Top Books of the Year Grade 10 Physical Science 2014 Exemplar The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Grade 10 Physical Science 2014 Exemplar : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated 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 triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling 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 popular 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 engaging 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 exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Grade 10 Physical Science 2014 Exemplar

1. Understanding the eBook Grade 10 Physical Science 2014 Exemplar
 - The Rise of Digital Reading Grade 10 Physical Science 2014 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Physical Science 2014 Exemplar
 - 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 Grade 10 Physical Science 2014 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Physical Science 2014 Exemplar
 - Personalized Recommendations
 - Grade 10 Physical Science 2014 Exemplar User Reviews and Ratings
 - Grade 10 Physical Science 2014 Exemplar and Bestseller Lists
5. Accessing Grade 10 Physical Science 2014 Exemplar Free and Paid eBooks
 - Grade 10 Physical Science 2014 Exemplar Public Domain eBooks
 - Grade 10 Physical Science 2014 Exemplar eBook Subscription Services
 - Grade 10 Physical Science 2014 Exemplar Budget-Friendly Options
6. Navigating Grade 10 Physical Science 2014 Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 10 Physical Science 2014 Exemplar Compatibility with Devices
 - Grade 10 Physical Science 2014 Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 10 Physical Science 2014 Exemplar
 - Highlighting and Note-Taking Grade 10 Physical Science 2014 Exemplar
 - Interactive Elements Grade 10 Physical Science 2014 Exemplar
8. Staying Engaged with Grade 10 Physical Science 2014 Exemplar

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Grade 10 Physical Science 2014 Exemplar
- 9. Balancing eBooks and Physical Books Grade 10 Physical Science 2014 Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 10 Physical Science 2014 Exemplar
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 10 Physical Science 2014 Exemplar
 - Setting Reading Goals Grade 10 Physical Science 2014 Exemplar
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 10 Physical Science 2014 Exemplar
 - Fact-Checking eBook Content of Grade 10 Physical Science 2014 Exemplar
 - 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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