

Answers to 5116/5118 2014 O level Combined Science (Chemistry) Paper 3

- A1 (a) Galvanization (i.e. coating iron with zinc) will prevent iron from rusting.
 - (b) Fermentation requires a temperature between 25°C and 40°C, enzymes (eg. yeast) and anaerobic condition (i.e. absence of oxygen).
 - (c) Calcium hydroxide is used to reduce acidity of soil.
 - (d) Bitumen fraction of crude oil is used for road surfaces.
- A2 (a) Two other solids added to a blast furnace are coke and limestone.
 - (b) Iron ore (haematite) contains iron (III) oxide. Near the bottom of the blast furnace, iron (III) oxide reacts with coke (carbon) to form carbon monoxide. Fe₂O₃ + 3C → 2Fe + 3CO

Carbon dioxide also reacts with coke to produce more carbon monoxide, $CO_{2(g)}+C_{(h)}\to 2CO_{(g)}$

- (c) If metals are not recycled they can harm future generations:
 - (i) metal is a finite resource → unavailable for future generations
 - (ii) metal disposal → increase landfills → increase ground water pollution
- (d) Plastics are harmful to the environment because
 - (i) incineration produces harmful gases
 - (ii) non-biodegradable -- blocks drains/ water flow and harms marine life
- A3 (a) An element, Ea with 4 electron shells and 3 outermost electrons is found in period 4 and group 3 of the periodic table.
 - (b) Charge of the element is Ea^{3*}
 - (c) Chemical formula of oxide is Ea₂O₃.

O Level Science 5116 2014

Yi-Tong Ma

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Table of Contents O Level Science 5116 2014

- 1. Understanding the eBook O Level Science 5116 2014
 - The Rise of Digital Reading O Level Science 5116 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying O Level Science 5116 2014
 - 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 O Level Science 5116 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from O Level Science 5116 2014
 - Personalized Recommendations
 - O Level Science 5116 2014 User Reviews and Ratings
 - O Level Science 5116 2014 and Bestseller Lists
- 5. Accessing O Level Science 5116 2014 Free and Paid eBooks
 - O Level Science 5116 2014 Public Domain eBooks
 - O Level Science 5116 2014 eBook Subscription Services
 - O Level Science 5116 2014 Budget-Friendly Options

- 6. Navigating O Level Science 5116 2014 eBook Formats
 - o ePub, PDF, MOBI, and More
 - O Level Science 5116 2014 Compatibility with Devices
 - O Level Science 5116 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of O Level Science 5116 2014
 - Highlighting and Note-Taking O Level Science 5116 2014
 - Interactive Elements O Level Science 5116 2014
- 8. Staying Engaged with O Level Science 5116 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers O Level Science 5116 2014
- 9. Balancing eBooks and Physical Books O Level Science 5116 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection O Level Science 5116 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine O Level Science 5116 2014
 - Setting Reading Goals O Level Science 5116 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of O Level Science 5116 2014
 - Fact-Checking eBook Content of O Level Science 5116 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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