

The fundamental ideas in chemistry

1.	electron nucleus neutron	each for 1 mark		
				[3]
2.	(a) (i) B		1	
	(ii) D		1	
	(b) A and B – only one type of atom		1	
	C and D – more than one type of atom		1	
		accept element for atom		
		ignore the word 'mixture'		
	(chemically) bonded		1	
		accept (chemically) joined or similar idea of joined		
				[5]
3.	B carbon monoxide		1	
	CO	accept carbon oxide	1	
		do not credit carbon dioxide		
		do not credit if any superscripts or subscripts used but accept C ₂ O ₂		
		accept OC		
		do not credit if obviously lower case		
	C water		1	
	H ₂ O	accept hydrogen oxide	1	
		do not accept hydrogen hydroxide		
		do not credit if obviously lower case or if 2 not subscript		
		do not accept HOH		
		accept OH ₂		
	D ammonia	do not accept ammonium	1	
	NH ₃	do not credit if obviously lower case, or if 3 not subscript	1	
		accept nitrogen hydride or hydrogen nitride		
		do not accept hydrogen nitrate or nitrite		
		allow H ₃ N		
				[6]
4.	• correct reactants (i.e. sodium + water either way round)			
	• correct products (i.e. sodium hydroxide + hydrogen, either way round)			
	• arrow → / =			
		[do not allow produce/makes or similar]		
		[do not allow symbols or formulae] each for 1 mark		
				[3]
5.	correct use of 'react'/reaction/reactants/combine (not mixed/added/join)		3	
	correct use of 'produce'/products/gives/forms/makes/creates reactants			
	correctly identified			
		each for 1 mark		
	products correctly identified		1	

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Léo Pomar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the Léo Pomar text.

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Table of Contents May 13 C1 Mark Scheme

1. Understanding the eBook May 13 C1 Mark Scheme
 - The Rise of Digital Reading May 13 C1 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying May 13 C1 Mark Scheme
 - 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 May 13 C1 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 13 C1 Mark Scheme
 - Personalized Recommendations
 - May 13 C1 Mark Scheme User Reviews and Ratings
 - May 13 C1 Mark Scheme and Bestseller Lists

5. Accessing May 13 C1 Mark Scheme Free and Paid eBooks
 - May 13 C1 Mark Scheme Public Domain eBooks
 - May 13 C1 Mark Scheme eBook Subscription Services
 - May 13 C1 Mark Scheme Budget-Friendly Options
6. Navigating May 13 C1 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - May 13 C1 Mark Scheme Compatibility with Devices
 - May 13 C1 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 13 C1 Mark Scheme
 - Highlighting and Note-Taking May 13 C1 Mark Scheme
 - Interactive Elements May 13 C1 Mark Scheme
8. Staying Engaged with May 13 C1 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 13 C1 Mark Scheme
9. Balancing eBooks and Physical Books May 13 C1 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 13 C1 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine May 13 C1 Mark Scheme
 - Setting Reading Goals May 13 C1 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May 13 C1 Mark Scheme
 - Fact-Checking eBook Content of May 13 C1 Mark Scheme
 - 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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