

1 This question is about gases found in clean, dry air and gases found in polluted air.

(a) Name **one** gas found in clean, dry air which contributes to global warming.

..... [1]

(b) State the percentage of nitrogen in clean, dry air.

..... [1]

(c) Name the substance used to remove sulfur dioxide in flue gas desulfurisation.

..... [1]

(d) Nitrogen dioxide, NO_2 , is formed in car engines.

Name the equipment in a car exhaust used to remove the NO_2 formed in car engines.

..... [1]

(e) All gases diffuse.

(i) Choose from the list of formulae the gas which diffuses most quickly.

Draw a circle around your answer.

CO

CO_2

CH_4

NO_2

SO_2

[1]

(ii) Explain your answer to (i).

..... [1]

(f) State **one** adverse effect of carbon monoxide on human health.

..... [1]

(g) Carbon dioxide, CO_2 , is a reactant in photosynthesis.

Name the **two** products of photosynthesis.

..... and [2]

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1. Understanding the eBook Igcse Chemistry Past Papers Cambridge 2012
 - The Rise of Digital Reading Igcse Chemistry Past Papers Cambridge 2012
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Chemistry Past Papers Cambridge 2012
 - 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 Igcse Chemistry Past Papers Cambridge 2012
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Chemistry Past Papers Cambridge 2012
 - Personalized Recommendations
 - Igcse Chemistry Past Papers Cambridge 2012 User Reviews and Ratings
 - Igcse Chemistry Past Papers Cambridge 2012 and Bestseller Lists
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 - Igcse Chemistry Past Papers Cambridge 2012 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Chemistry Past Papers Cambridge 2012
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- 8. Staying Engaged with Igcse Chemistry Past Papers Cambridge 2012
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Chemistry Past Papers Cambridge 2012
- 9. Balancing eBooks and Physical Books Igcse Chemistry Past Papers Cambridge 2012
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Chemistry Past Papers Cambridge 2012
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Igcse Chemistry Past Papers Cambridge 2012
 - Setting Reading Goals Igcse Chemistry Past Papers Cambridge 2012
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Igcse Chemistry Past Papers Cambridge 2012
 - Fact-Checking eBook Content of Igcse Chemistry Past Papers Cambridge 2012
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

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- Interactive and Gamified eBooks

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