

# CHEMISTRY

## C1- Air Quality

### • Pollutants in the Air

Pollutants are chemicals. They can harm the environment and our health.

Human activities such as burning fossil fuels release pollutants into the atmosphere, e.g. from power stations or cars.

Pollutants can harm ecosystems. For example, acid rain makes them too acidic for organisms to survive. This affects our biodiversity and natural resources, e.g. trees.

Pollutant	Released as...	Effect
Carbon dioxide	Environment	Traps heat in the Earth's atmosphere (Greenhouse gas)
Nitrogen oxides	Environment Plasma	Causes acid rain Causes breathing problems and can make asthma worse
Sulphur dioxide (Particulates (solid) particulate matter (e.g. dust))	Environment Environment Plasma	Causes acid rain Makes buildings dirty Causes asthma and long term lung disease (e.g. COPD)
Carbon monoxide	Plasma	Poisons the blood stream carrying oxygen, which is vital for life

### • The Atmosphere

The Earth is surrounded by a mixture of gases called the atmosphere.

The atmosphere contains...

Around 78% nitrogen, 21% oxygen, 1% hydrogen and other noble gases and small amounts of water vapour, carbon dioxide and other gases.

### • Measuring Pollutants

It's possible to measure concentrations of pollutants in the air in ppm (parts per million) or ppb (parts per billion). For example, a carbon dioxide concentration of 380ppm means that in every one billion molecules of air, 38 molecules will be carbon dioxide.

# Ocr 21st Century Science Past Papers Chemistry C1 C2 C3

**Brendan G. Carr**



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## **Table of Contents Ocr 21st Century Science Past Papers Chemistry C1 C2 C3**

1. Understanding the eBook Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - The Rise of Digital Reading Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Advantages of eBooks Over Traditional Books
2. Identifying Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - 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 Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Personalized Recommendations
  - Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 User Reviews and Ratings

- Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 and Bestseller Lists
- 5. Accessing Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 Free and Paid eBooks
  - Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 Public Domain eBooks
  - Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 eBook Subscription Services
  - Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 Budget-Friendly Options
- 6. Navigating Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 Compatibility with Devices
  - Ocr 21st Century Science Past Papers Chemistry C1 C2 C3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Highlighting and Note-Taking Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Interactive Elements Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
- 8. Staying Engaged with Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
- 9. Balancing eBooks and Physical Books Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Setting Reading Goals Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - Fact-Checking eBook Content of Ocr 21st Century Science Past Papers Chemistry C1 C2 C3
  - 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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