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Candidate surname

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Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Tuesday 13 June 2023

Morning (Time: 1 hour 45 minutes)

Paper
reference

1CH0/2H

Chemistry
PAPER 2

Higher Tier

You must have:
Calculator, ruler

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- Fill in the **boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– there may be more space than you need.
- Calculators may be used.
- Any diagrams may NOT be accurately drawn, unless otherwise indicated.
- You must **show all your working out** with your answer clearly identified at the end of your solution.

Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.
- In questions marked with an **asterisk** (*), marks will be awarded for your ability to structure your answer logically, showing how the points that you make are related or follow on from each other where appropriate.
- There is a periodic table on the back cover of the paper.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➞

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Rob Toplis, Jenny Frost



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with imperfect information In *The Art of Uncertainty* he shows how we can become better at dealing with what we don't know to make smarter choices in a world so full of puzzling variables In lucid lively prose Spiegelhalter guides us through the principles of probability illustrating how they can help us think more analytically about everything from medical advice to sports to climate change forecasts He demonstrates how taking a mathematical approach to phenomena we might otherwise attribute to fate or luck can help us sort hidden patterns from mere coincidences better evaluate cause and effect and predict what's likely to happen in the future Along the way we learn how a misinterpretation of a probability contributed to the infamous Bay of Pigs fiasco why a ship twice the size of the Titanic sank without a trace and why we can be so confident that no two properly shuffled decks of cards have ever been in the same order Sparkling with wit and fascinating real world examples this is an essential guide to navigating uncertainty while also retaining the humility to admit what we don't or simply cannot know

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Table of Contents Edexcel Science Past Papers

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

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