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**Wednesday 22 May 2019**

Afternoon (Time: 1 hour 10 minutes)

Paper Reference **1SC0/1PH**

**Combined Science**

**Paper 3: Physics 1**

**Higher Tier**

**You must have:**

Calculator, ruler

Total Marks

42

### 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 60.
- 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.
- A list of equations is included at the end of this exam paper.

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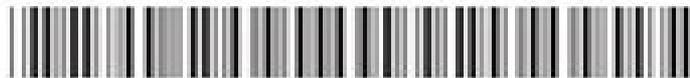
- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

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**Table of Contents May 2015 Edexcel Science Pixl Higher Paper**

1. Understanding the eBook May 2015 Edexcel Science Pixl Higher Paper
  - The Rise of Digital Reading May 2015 Edexcel Science Pixl Higher Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying May 2015 Edexcel Science Pixl Higher Paper
  - 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 2015 Edexcel Science Pixl Higher Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from May 2015 Edexcel Science Pixl Higher Paper
  - Personalized Recommendations
  - May 2015 Edexcel Science Pixl Higher Paper User Reviews and Ratings
  - May 2015 Edexcel Science Pixl Higher Paper and Bestseller Lists
5. Accessing May 2015 Edexcel Science Pixl Higher Paper Free and Paid eBooks
  - May 2015 Edexcel Science Pixl Higher Paper Public Domain eBooks
  - May 2015 Edexcel Science Pixl Higher Paper eBook Subscription Services
  - May 2015 Edexcel Science Pixl Higher Paper Budget-Friendly Options
6. Navigating May 2015 Edexcel Science Pixl Higher Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - May 2015 Edexcel Science Pixl Higher Paper Compatibility with Devices
  - May 2015 Edexcel Science Pixl Higher Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of May 2015 Edexcel Science Pixl Higher Paper
  - Highlighting and Note-Taking May 2015 Edexcel Science Pixl Higher Paper
  - Interactive Elements May 2015 Edexcel Science Pixl Higher Paper
8. Staying Engaged with May 2015 Edexcel Science Pixl Higher Paper

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers May 2015 Edexcel Science Pixl Higher Paper
9. Balancing eBooks and Physical Books May 2015 Edexcel Science Pixl Higher Paper
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection May 2015 Edexcel Science Pixl Higher Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine May 2015 Edexcel Science Pixl Higher Paper
- Setting Reading Goals May 2015 Edexcel Science Pixl Higher Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May 2015 Edexcel Science Pixl Higher Paper
- Fact-Checking eBook Content of May 2015 Edexcel Science Pixl Higher Paper
  - 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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