

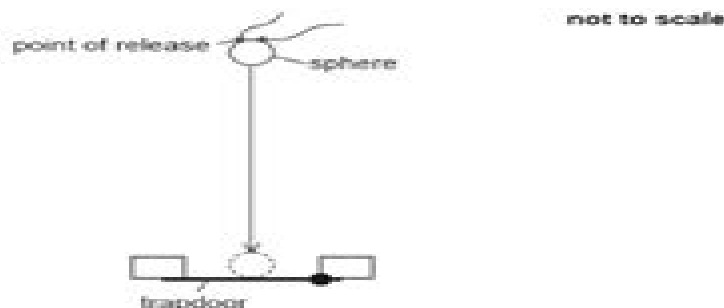
SL Paper 3

An experiment to find the internal resistance of a cell of known emf is to be set. The following equipment is available:



- Draw a suitable circuit diagram that would enable the internal resistance to be determined. [1]
- It is noticed that the resistor gets warmer. Explain how this would affect the calculated value of the internal resistance. [3]
- Outline how using a variable resistance could improve the accuracy of the value found for the internal resistance. [2]

To determine the acceleration due to gravity, a small metal sphere is dropped from rest and the time it takes to fall through a known distance and open a trapdoor is measured.



The following data are available.

Diameter of metal sphere	$= 12.0 \pm 0.1 \text{ mm}$
Distance between the point of release and the trapdoor	$= 654 \pm 2 \text{ mm}$
Measured time for fall	$= 0.363 \pm 0.002 \text{ s}$

- Determine the distance fallen, in m, by the centre of mass of the sphere including an estimate of the absolute uncertainty in your answer. [2]
- Using the following equation [4]

$$\text{acceleration due to gravity} = \frac{2 \times \text{distance fallen by centre of mass of sphere}}{(\text{measured time to fall})^2}$$

calculate, for these data, the acceleration due to gravity including an estimate of the absolute uncertainty in your answer.

Physics 2013 SI Paper

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Table of Contents Physics 2013 SI Paper

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 - The Rise of Digital Reading Physics 2013 SI Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics 2013 SI 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 Physics 2013 SI Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 2013 SI Paper
 - Personalized Recommendations
 - Physics 2013 SI Paper User Reviews and Ratings
 - Physics 2013 SI Paper and Bestseller Lists
5. Accessing Physics 2013 SI Paper Free and Paid eBooks
 - Physics 2013 SI Paper Public Domain eBooks
 - Physics 2013 SI Paper eBook Subscription Services
 - Physics 2013 SI Paper Budget-Friendly Options
6. Navigating Physics 2013 SI Paper eBook Formats

- ePub, PDF, MOBI, and More
- Physics 2013 SI Paper Compatibility with Devices
- Physics 2013 SI Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 2013 SI Paper
 - Highlighting and Note-Taking Physics 2013 SI Paper
 - Interactive Elements Physics 2013 SI Paper
- 8. Staying Engaged with Physics 2013 SI Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 2013 SI Paper
- 9. Balancing eBooks and Physical Books Physics 2013 SI Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 2013 SI Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics 2013 SI Paper
 - Setting Reading Goals Physics 2013 SI Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics 2013 SI Paper
 - Fact-Checking eBook Content of Physics 2013 SI 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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