

# Section 1: Forces and Motion

## a) UNITS

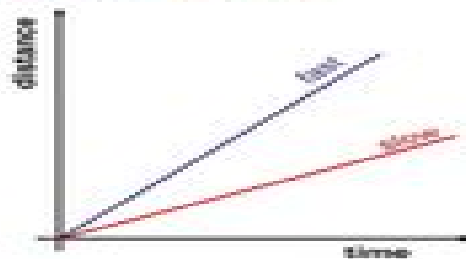
### 1.1 Learn and use these units:

- Kilogram (kg)
- Metre (m)
- Metre/second (m/s)
- Metre/second<sup>2</sup> (m/s<sup>2</sup>)
- Newton (N)
- Second (s)
- Newton per kilogram (N/kg)
- Kilogram metre/ second (kg m/s)

## b) MOVEMENT AND POSITION

### 1.2 plot and interpret distance-time graphs

The **slope or gradient** of a distance-time graph is increases with **speed**.



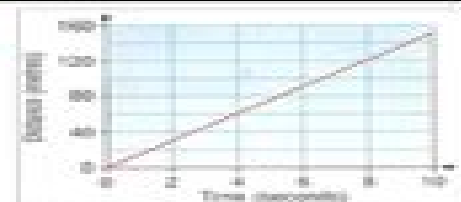
The **slope or gradient** of a distance-time graph is equal to the **speed**.

In the graph opposite:

$$\text{slope} = 150\text{m} / 10\text{s}$$

$$= 15 \text{ m/s}$$

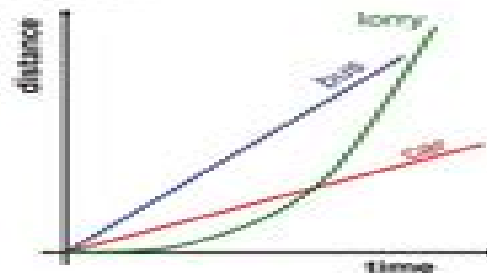
$$= \text{speed}$$



### Question 1

Sketch on the same set of axes distance-time graphs for:

- a car moving at a steady speed,
- a bus moving at a steady speed greater than the car,
- a lorry increasing in speed from rest.



### Question 2

Describe the motion of the three lorries X, Y and Z shown in the graph below.



Lorry X:

Moving **quickest**

$$\text{speed} = 45000\text{m} / 1800\text{s} = 25 \text{ m/s}$$

Lorry Y:

$$\text{speed} = 36000\text{m} / 1800\text{s} = 20 \text{ m/s}$$

Lorry Z:

Moving **slowest**

$$0 \text{ to } 600\text{s}; \text{ speed} = 10000\text{m} / 600\text{s} = 16.7 \text{ m/s}$$

$$600 \text{ to } 1200\text{s}; \text{ stationary}$$

$$1200 \text{ to } 1800\text{s}; \text{ speed} = 16.7 \text{ m/s}$$

$$\text{average speed} = 20000\text{m} / 1800\text{s} = 11.1 \text{ m/s}$$

# Igcse Physics Revision Notes

**Thomas Bond,Chris Hughes**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the authors' names.

## **Igcse Physics Revision Notes:**

Revise IGCSE Physics Graham Booth, 2007-10-25 Revise IGCSE Mathematics **Cambridge IGCSE Physics Study and Revision Guide 2nd edition** Mike Folland, 2016-02-29 Providing guidance that helps students practice and troubleshoot their exam technique these books send them into their exam with the confidence to aim for the best grades Enables students to avoid common misconceptions and mistakes by highlighting them throughout Builds students skills constructing and writing answers as they progress through a range of practice questions Allows students to mark their own responses and easily identify areas for improvement using the answers in the back of the book Helps students target their revision and focus on important concepts and skills with key objectives at the beginning of every chapter Ensures that students maximise their time in the exam by including examiner s tips and suggestions on how to approach the questions This title has not been through the Cambridge International Examinations endorsement process [O Level Physics Questions and Answers PDF](#) Arshad Iqbal, The O Level Physics Quiz Questions and Answers PDF IGCSE GCSE Physics Competitive Exam Questions Chapter 1 24 Practice Tests Class 9 10 Physics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions O Level Physics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests O Level Physics Quiz PDF book helps to practice test questions from exam prep notes The O Level Physics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests O Level Physics Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Electromagnetic waves energy work power forces general wave properties heat capacity kinematics kinetic theory of particles light mass weight density measurement of physical quantities measurement of temperature melting and boiling pressure properties and mechanics of matter simple kinetic theory of matter sound speed velocity and acceleration temperature thermal energy thermal properties of matter transfer of thermal energy turning effects of forces waves tests for school and college revision guide Physics Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The IGCSE GCSE Physics Interview Questions Chapter 1 24 PDF book includes high school question papers to review practice tests for exams O Level Physics Practice Tests a textbook s revision guide with chapters tests for IGCSE NEET MCAT SAT ACT GATE IPhO competitive exam GCSE Physics Questions Bank Chapter 1 24 PDF book covers problem solving exam tests from physics textbook and practical eBook chapter wise as Chapter 1 Electromagnetic Waves Questions Chapter 2 Energy Work and Power Questions Chapter 3 Forces Questions Chapter 4 General Wave Properties Questions Chapter 5 Heat Capacity Questions Chapter 6 Kinematics Questions Chapter 7 Kinetic Theory of Particles Questions Chapter 8 Light Questions Chapter 9 Mass Weight and Density Questions Chapter 10 Measurement of Physical Quantities Questions Chapter 11 Measurement of Temperature Questions Chapter 12 Measurements Questions Chapter 13 Melting and Boiling Questions Chapter 14 Pressure Questions Chapter 15

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## **Table of Contents Igcse Physics Revision Notes**

1. Understanding the eBook Igcse Physics Revision Notes
  - The Rise of Digital Reading Igcse Physics Revision Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Physics Revision Notes
  - 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 Physics Revision Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Physics Revision Notes
  - Personalized Recommendations
  - Igcse Physics Revision Notes User Reviews and Ratings
  - Igcse Physics Revision Notes and Bestseller Lists
5. Accessing Igcse Physics Revision Notes Free and Paid eBooks

- Igcse Physics Revision Notes Public Domain eBooks
- Igcse Physics Revision Notes eBook Subscription Services
- Igcse Physics Revision Notes Budget-Friendly Options
- 6. Navigating Igcse Physics Revision Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Igcse Physics Revision Notes Compatibility with Devices
  - Igcse Physics Revision Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Igcse Physics Revision Notes
  - Highlighting and Note-Taking Igcse Physics Revision Notes
  - Interactive Elements Igcse Physics Revision Notes
- 8. Staying Engaged with Igcse Physics Revision Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Igcse Physics Revision Notes
- 9. Balancing eBooks and Physical Books Igcse Physics Revision Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Igcse Physics Revision Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Igcse Physics Revision Notes
  - Setting Reading Goals Igcse Physics Revision Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Igcse Physics Revision Notes
  - Fact-Checking eBook Content of Igcse Physics Revision Notes
  - 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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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

*lab report 4 stoichiometry of iron copper ii sulfate* - Feb 09 2023

web stoichiometric principles can be used to determine the chemical equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction the iron ions dissolve in the copper ii sulfate solution to produce copper ii ions

**stoichiometry reaction of iron with copper ii sulfate** - Apr 11 2023

web lab 4 stoichiometry the reaction of iron with copper ii sulfate revised 8 19 2009 1 introduction in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces

**lab report copper iron stoichiometry 1522 words cram lab report** - Mar 30 2022

web under the finalize of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

**lab report stoichiometry the reaction of iron with copper ii sulfate** - Aug 03 2022

web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated  $\text{CuSO}_4$  solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

**stoichiometry the reaction of iron with copper ii sulfate** - Jul 14 2023

web stoichiometry the reaction of iron with copper ii sulfate purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction

**stoichiometry lab iron and copper sulfate studylib net** - May 12 2023

web stoichiometry lab iron and copper sulfate sample data data and observations mass of copper ii sulfate pentahydrate 3 27 g of g mass of filter paper mass of filter paper and dry copper mass of dry copper 1 28 g