

Physical Science Grade 12 Notes

Your Name

April 16, 2025

Contents

1 Mechanics	1
1.1 Motion in One Dimension	1
1.2 Newton's Laws of Motion	2
2 Waves and Sound	2
2.1 Wave Properties	2
3 Electricity and Magnetism	3
3.1 Ohm's Law	3
4 Exam Tips	3

1 Mechanics

1.1 Motion in One Dimension

Key Formulas:

$$v = \frac{\Delta x}{\Delta t}$$
$$a = \frac{\Delta v}{\Delta t}$$
$$v_f = v_i + at$$
$$\Delta x = v_i t + \frac{1}{2}at^2$$
$$v_f^2 = v_i^2 + 2a\Delta x$$

Worked Example:

- A car accelerates from rest at 3 m/s^2 for 5 s . Find its final velocity and displacement.

Solution:

$$v_f = 0 + (3)(5) = 15 \text{ m/s}$$
$$\Delta x = 0 + \frac{1}{2}(3)(5)^2 = 37.5 \text{ m}$$

Diagram: Velocity-Time Graph

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Table of Contents Grade 12 Physical Science Study Notes Smartlearners

1. Understanding the eBook Grade 12 Physical Science Study Notes Smartlearners
 - The Rise of Digital Reading Grade 12 Physical Science Study Notes Smartlearners
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Physical Science Study Notes Smartlearners
 - 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 Grade 12 Physical Science Study Notes Smartlearners
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Physical Science Study Notes Smartlearners
 - Personalized Recommendations
 - Grade 12 Physical Science Study Notes Smartlearners User Reviews and Ratings

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