

Physical Science Grade 12 2025 June Term 2 Exam Papers and Memos

	2.1.1	Define the term kinetic friction.	(2)
	2.1.2	Explain why the coefficient of friction for the two blocks, A and B are different.	(1)
	2.1.3	Draw a labelled free-body diagram showing all the forces acting on block ${\bf A}.$	(5)
	2.1.4	Calculate the mass of block B.	(7)
2.2		of mass 100 kg lies on the surface of a planet Y. The acceleration gravity on the surface of the planet is 12 m·s ⁻² .	
	2.2.1	State the Newton's Law of Universal Gravitation in words	(2)
	2.2.2	Calculate the mass of the planet Y if its radius is 700 km.	(4) [21]

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Table of Contents Physical Science Grade Caps June Exam Papers

- 1. Understanding the eBook Physical Science Grade Caps June Exam Papers
 - The Rise of Digital Reading Physical Science Grade Caps June Exam Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Grade Caps June Exam 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 Physical Science Grade Caps June Exam Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Grade Caps June Exam Papers
 - Personalized Recommendations

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