

Universal Gravitation

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MOP Connection: Circular Motion and Gravitation: sublevels 6 and 7

- The evidence that stimulated Newton to propose the law of universal gravitation emerged from a study of _____. **Answer: A**
 a. the motion of the moon and other celestial or heavenly bodies
 b. the fall of an apple to the Earth
 c. the gravitational interaction of smaller objects upon the Earth
 d. ...nonsense! There was no evidence; it was just proposed as a theory.
 - The universal of Newton's law of universal gravitation is a common source of confusion. The universal means that _____.
 a. the amount of gravitational forces is the same for all objects.
 b. the acceleration caused by gravity is the same for all objects.
 c. the force of gravity acts between all objects - not just between the Earth and an object, but also between two people. All objects with mass attract.
 d. ...nonsense! There was no evidence; it was just proposed as a theory.
 - According to Newton's gravitation law, the force of gravitational attraction between a planet and an object located upon the planet's surface depends upon _____. Choose all that apply. **Answers: ABC**
 a. the radius of the planet
 b. the mass of the planet
 c. the mass of the object
 d. the volume of the object
 e. ... nonsense! None of these variables affect the force of gravity.
 - The more massive that an object is, the more (more, less) that the object will be attracted to Earth.
 - The more massive the Earth is, the more (more, less) that another object will be attracted to Earth.
 - The greater that Earth's radius is, the less (more, less) that another object will be attracted to Earth.
 - In the mathematical form of Newton's law of universal gravitation (see equation at right), the symbol G stands for _____. **Answer: C**
 a. gravity
 b. the acceleration of gravity
 c. the gravitational constant
 d. ... nonsense! None of these variables affect the force of gravity.
- $$F_{\text{grav}} = \frac{G \cdot m_1 \cdot m_2}{d^2}$$
- TRUE or FALSE:**
 The value of G (in the equation above) is an enormously large number; that explains why (at least in part) the force of gravitational attraction between the Sun and the very distant Earth is such a large number.
Answer: FALSE. G is very small ($\sim 10^{-11}$) ... but the masses are very large.
 - TRUE or FALSE:**
 Two lab partners attract each other with a gravitational force. However, it is impossible to calculate such a force since it is only an unproven theory.
Answer: FALSE. Knowing their masses and separation distances, the force of attraction can be calculated using the equation in question #7.
 - TRUE or FALSE:**
 The notion that any two objects attract each other gravitationally is a theory. There is no empirical evidence for such a notion.
Answer: FALSE. Cavendish has tested the theory using people-sized masses (actually, smaller than people-masses).
 - Orbiting astronauts on the space shuttle do not have weight in space because _____. **Answer: E**
 a. there is no gravity in space
 b. there is no air resistance in space
 c. there are no scales in space
 d. the food is terrible and they work all the time
 e. ... nonsense! The astronauts do have weight in space.



Universal Gravitation Circular And Satellite Motion Answers

S. Chand Experts



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asked in the IIT entrance exam **Ncert Objective Textbook- Physics** Dr. Manish Rannjan (IAS),2021-01-19 NCERT Objective Textbook Physics by Dr Manish Rannjan IAS NCERT Objective Textbook Physics by Dr Manish Rannjan IAS is a comprehensive textbook that focuses on physics based on the NCERT curriculum This book is designed to help students in their study of physics by providing a thorough understanding of the fundamental concepts principles and applications of the subject With its objective based approach practice questions and clear explanations this textbook serves as an essential resource for students preparing for competitive exams and aiming to excel in physics Key Aspects of the Book NCERT Objective Textbook Physics Comprehensive Coverage The book covers the entire NCERT physics curriculum providing a comprehensive understanding of the subject It covers topics such as mechanics thermodynamics optics electricity magnetism and modern physics ensuring that students have a strong foundation in all areas of physics Objective Based Approach The book adopts an objective based approach focusing on the application of physics principles to solve problems It presents objective type questions that align with the NCERT syllabus and commonly appear in competitive exams allowing students to practice and enhance their problem solving skills Clear Explanations and Practice Questions The book offers clear explanations of physics concepts making complex topics accessible and easier to understand It also includes practice questions at the end of each chapter enabling students to test their understanding and assess their knowledge Dr Manish Rannjan IAS the author of NCERT Objective Textbook Physics is a distinguished educator and civil servant with a deep understanding of physics and its applications With his expertise in physics and experience in competitive exams Dr Manish Rannjan has created a comprehensive textbook that caters to the needs of students preparing for exams based on the NCERT curriculum His aim is to provide students with a resource that not only covers the syllabus but also enhances their problem solving skills and prepares them for competitive exams in physics *Cambridge International AS and A Level Physics Revision Guide* Robert Hutchings,2015-12-10 Cambridge International AS and A Level Physics Revision Guide matches the requirements of the Cambridge AS and A Level Physics syllabus This Revision Guide offers support for students as they prepare for their AS and A Level Physics 9702 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance specifically designed to help students apply their knowledge in exams such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes Written in a clear and straightforward tone this Revision Guide is perfect for international learners **Physics for the Inquiring Mind** Eric M. Rogers,2011-04-17 In our scientific age an understanding of physics is part of a liberal education Lawyers bankers governors business heads administrators all wise educated people need a lasting understanding of physics so that they can enjoy those contacts with science and scientists that are part of our civilization both materially and intellectually They need knowledge and understanding instead of the feelings all too common that physics is dark and mysterious and that physicists are a strange people with incomprehensible

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Differential Equations Morris Tenenbaum, Harry Pollard, 1985-10-01 Skillfully organized introductory text examines origin of differential equations then defines basic terms and outlines the general solution of a differential equation Subsequent sections deal with integrating factors dilution and accretion problems linearization of first order systems Laplace Transforms Newton's Interpolation Formulas more *Cliffs AP Physics B & C* James R. Centorino, 2004 Suitable for students who are enrolled in AP Physics B or C or who are preparing for the Advanced Placement Examination in AP Physics B or C this book offers hints for answering the free response and multiple choice sections an explanation of the exam formats and a look at how exams are graded **Cracking the AP Physics 1 Exam 2020, Premium Edition** . The Princeton Review, 2019-08-06

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