

## Big Picture

Gravity is one of the four fundamental forces of our universe. Although it is the weakest of the forces, it is the one that people have the most experience with. The equations and concepts below explain gravity in a way that is consistent with classical mechanics, but the theory of general relativity is required for a complete explanation of our modern understanding of gravity.

## Key Terms

**Law of Universal Gravitation:** Any two objects in the universe are attracted to each other by a force proportional to the masses of the two objects and inversely proportional to the square of the distance between the center of mass of each object. This law determines the force of gravity on all objects at any point in space. SI units: N

**Gravitational Field:** A force field that surrounds massive objects with acceleration vectors that pull smaller objects towards itself. The magnitude of the vector is equal to the acceleration of the object due to gravity at that distance from the object. SI units:  $m/s^2$

**Fields:** Something that helps us keep track of forces.

**Satellites:** An object orbiting another object.

## Kepler's Laws of Planetary Motion

Kepler came up with three laws of motion that describe the movements of the planets based on his observations of the solar system before Newton developed the law of universal gravitation. It is possible to derive Kepler's laws from the law of universal gravitation and Newton's laws of motion. Kepler's laws are:

1. Planets orbit in an ellipse with the sun at one of the foci.
2. For a given period of time, the angular displacement for a planet will always be equal. To the right is a diagram illustrating this law.
3. The square of the orbital period is proportional to the cube of half the length of the major axis of the planet's orbit.



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## Satellites

In physics, anything orbiting another body is considered a satellite. For example, the Moon is considered to be Earth's satellite even though it is not referred to as a "satellite."

Satellites are able to stay in space despite being pulled down by gravity because of their horizontal velocity. Newton explains this concept by using an example: if we throw a ball horizontally, it will gradually fall to the ground. If we throw the ball much faster, it will travel for a longer time before hitting the ground because we threw it faster and because the Earth's surface curves away from the ball as it is pulled down by gravity. Hypothetically, if we throw the ball fast enough, the distance that the Earth's surface curves away from the ball will equal the distance the ball falls. Without air resistance, the ball would continue to fly around the earth forever.



The speeds necessary for satellite motion are extremely high. For example, the International Space Station has an average linear speed of about 17,200 mph (~7,700 m/s). This is why all satellites exist outside the Earth's atmosphere, where there is no air resistance to slow them down or to generate heat that would set the satellite on fire.

## Important Equations

Law of Universal Gravitation:  $F_g = \frac{Gm_1m_2}{r^2}$

$F_g$  - force of gravity  
 $m$  - mass

$G$  - gravitational constant =  $6.674 \times 10^{-11} \text{ N}(\text{m/kg})^2$   
 $r$  - distance between objects

Near Earth's surface, we can approximate:  $g = \frac{GM_{\text{Earth}}}{r_{\text{Earth}}^2} = 9.8 \text{ m/s}^2$

# Gravitation Study Guide

**R Sanford**



## Gravitation Study Guide:

*Student Study Guide and Solutions Manual for General Physics* Morton M. Sternheim, 1986      **Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2** Stanley A. Williams, 1978

Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed. Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning      *Study Guide to Accompany Physics: Principles and Insights* Ira Maximilian Freeman, 1973      **Earth Science Questions and Answers PDF** Arshad Iqbal, The Earth Science Quiz Questions and Answers PDF Earth Science Competitive Exam Questions Chapter 1 26 Practice Tests Class 8 12 Earth Science Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Earth Science Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Earth Science Quiz PDF book helps to practice test questions from exam prep notes The Earth Science Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Earth Science Objective Questions and Answers PDF Free Download chapter 1 a book covers solved common questions and answers on chapters Agents of erosion and deposition atmosphere composition atmosphere layers earth atmosphere earth models and maps earth science and models earthquakes energy resources minerals and earth crust movement of ocean oceanography ocean water oceans exploration oceans of world planets facts planets for kids plates tectonics restless earth plate tectonics rocks and minerals mixtures solar system for kids solar system formation space astronomy space science stars galaxies and universe tectonic plates for kids temperature weather and climate tests for school and college revision guide Science Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Earth Science Interview Questions Chapter 1 26 PDF book includes high school question papers to review practice tests for exams Earth Science Practice Tests a textbook s revision guide with chapters tests for NEET Jobs Entry Level competitive exam Earth Science Questions Bank Chapter 1 26 PDF book covers problem solving exam tests from science textbook and practical eBook chapter wise as Chapter 1 Agents of Erosion and Deposition Questions Chapter 2 Atmosphere Composition Questions Chapter 3 Atmosphere Layers Questions Chapter 4 Earth Atmosphere Questions Chapter 5 Earth Models and Maps Questions Chapter 6 Earth Science and Models Questions Chapter 7 Earthquakes Questions Chapter 8 Energy Resources Questions Chapter 9 Minerals and Earth Crust Questions Chapter 10 Movement of Ocean Water Questions Chapter 11 Oceanography Ocean Water Questions Chapter 12 Oceans Exploration Questions Chapter 13 Oceans of World Questions Chapter 14 Planets Facts Questions Chapter 15 Planets Questions Chapter 16 Plates Tectonics Questions Chapter 17 Restless Earth Plate Tectonics Questions Chapter 18 Rocks and Minerals Mixtures Questions Chapter 19 Solar System Questions Chapter 20 Solar System Formation Questions Chapter 21

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