



# PHYSICS



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## WHAT IS PHYSICS ALL ABOUT?

Physics seeks to understand the natural phenomena that occur in our universe; a description of a natural phenomenon uses many specific terms, definitions and mathematical equations.  
**Solving Problems in Physics**  
In physics, we use the SI units (International System) for data and calculations.

| Base Quantity    | Symbol | Unit             |
|------------------|--------|------------------|
| Length           | $L, x$ | Meter - m        |
| Mass             | $m, M$ | Kilogram - kg    |
| Temperature      | $T$    | Kelvin - K       |
| Time             | $t$    | Second - s       |
| Electric Current | $I$    | Ampere - A (C/s) |

Other physical quantities are derived from these basic units. Prefixes denote fractions or multiples of units; many variable symbols are Greek letters.  
**Math Skills:** Many physical concepts are only understood with the use of algebra, statistics, trigonometry and calculus.

## CLASSICAL MECHANICS

**A. Classical or Newtonian Mechanics:** The position of a body is given by an equation of motion with position, velocity and acceleration as variables; mass is the measure of the amount of matter; the standard unit for mass is kg, 1 kg = 1000 g; Inertia is a property of matter, and as such, it occupies space.

1. Motion along a straight line is called rectilinear; the equation of motion describes the position of the particle and velocity for elapsed time,  $t$ .

a. **Velocity ( $v$ ):** The rate of change of the displacement

$$v \text{ with time } (t): v = \frac{dx}{dt} = \frac{dx}{dt}$$

b. **Acceleration ( $a$ ):** The rate of change of the velocity with time:  $a = \frac{dv}{dt} = \frac{dv}{dt}$

$a$  &  $v$  are vectors, with magnitude and direction  
c. **Speed** is the absolute value of the velocity; scalar with the same units as velocity.

2. **Equations of Motion for One Dimension (1-D)**

Equations of motion describe the future position ( $x$ ) and velocity ( $v$ ) of a body in terms of the initial velocity ( $v_0$ ), position ( $x_0$ ) and acceleration ( $a$ )

a. For constant acceleration, the position is related to the time and acceleration by the following equation of motion:  $x(t) = x_0 + v_0 t + \frac{1}{2} a t^2$

b. For constant acceleration, the velocity vs. time is given by the following:  $v(t) = v_0 + a t$

c. If the acceleration is a function of time, the equation must be solved using  $a = a(t)$

**B. Motion in Two Dimensions (2-D)**

1. For bodies moving along a straight line, derive  $x$ - and  $y$ -equations of motion

$$x = v_{0x} t + \frac{1}{2} a_x t^2$$

$$y = v_{0y} t + \frac{1}{2} a_y t^2$$



2. For a rotating body, use polar coordinates, an angle variable,  $\theta$ , and  $r$ , a radial distance from the rotational center

Polar:  $(r, \theta)$   
 $r = r \cos \theta$   
 $r^2 = x^2 + y^2$

**C. Motion in Three Dimensions (3-D)**

1. **Cartesian System:** Equations of motion with  $x$ ,  $y$  and  $z$  components

2. **Spherical Coordinates:** Equations of motion based on two angles ( $\theta$  and  $\phi$ ) and  $r$ , the radial distance from the origin.



**D. Newton's Laws of Motion**  
Newton's Laws are the core principles for describing the motion of classical objects in response to forces. The SI unit of force is the Newton, N; 1N=1kg m/s<sup>2</sup>, the cgs unit is the dyne; 1 dyne = 1g cm/s<sup>2</sup>

$x = r \sin \theta \cos \phi$   
 $y = r \sin \theta \sin \phi$   
 $z = r \cos \theta$   
 $r^2 = x^2 + y^2 + z^2$

- Newton's 1st Law:** A body remains at rest or in motion unless influenced by a force
- Newton's 2nd Law:** Force and acceleration determine the motion of a body and predict future position and velocity:  $F = m a$  OR  $\Sigma F = m a$
- Newton's 3rd Law:** Every action is countered by an opposing action

### E. Types of Forces

1. A body force acts on the entire body, with the force acting at the center of mass

a. A gravitational force,  $F_g$ , pulls an object toward the center of the Earth:  $F_g = m g$

b. Weight =  $F_g$ ; gravitational force

c. Mass is a measure of the quantity of material, independent of  $g$  and other forces.

2. Surface forces act on the body's surface

a. **Friction,  $F_f$ ,** is proportional to the force normal to the part of the body in contact with a surface.

$$F_f = F_N = \mu F_N$$

i. Static friction resists the movement of a body

ii. Dynamic friction slows the motion of a body

For an object on a horizontal plane:

$$F_f = \mu F_N = \mu m g$$

$$\text{Net force} = F_A - F_f$$



### F. Circular Motion

1. Motion along a circular path uses polar coordinates:  $(r, \theta)$

2. Key Variables:

|          |                            |                                                          |
|----------|----------------------------|----------------------------------------------------------|
| $r$      | Meter                      | The distance from the rotation center (center of mass)   |
| $\theta$ | Radian                     | The angle between $r$ and the ( $x$ ) axis               |
| $\omega$ | Radian/second              | The angular velocity                                     |
| $\alpha$ | Radian/second <sup>2</sup> | The angular acceleration                                 |
| $s$      | Meter                      | The circular motion arc $s = r\theta$ ( $\theta$ in rad) |

3. **Tangential acceleration & velocity:**

$$v_t = r \omega; a_t = r \alpha; v \text{ and } a \text{ along the path of the motion are}$$

4. **Centripetal acceleration:**  $a_c = \frac{v^2}{r}$ ;  $a$  is directed toward the rotational center

a. The centripetal force keeps the body in circular motion with a tangential acceleration and velocity

### G. Kinetic Energy & Work

1. **Kinetic energy,  $K$ :** Kinetic energy is the energy of motion; mass,  $m$  and velocity,  $v$ ;  $K = \frac{1}{2} m v^2$

The SI energy unit is the Joule (J); 1J = 1 kg m<sup>2</sup>/s<sup>2</sup>

2. **Momentum,  $p$ :** Momentum is a property of motion, defined as the product of mass and velocity:  $p = m v$

3. **Work ( $W$ ):** Work is a force acting on a body moving a distance; for a general force,  $F$ , and a body moving a path,  $s$ ;  $W = \int F ds$

For a constant force, work is the scalar product of the two vectors: force,  $F$ , and path,  $r$ :

$$W = F d \cos(\theta) = F \cdot r$$



4. **Power ( $P$ ):** energy expended per unit time:

$$P = \frac{dW}{dt} = \frac{dW}{dt}$$

$$Work = \int P(t) dt$$

The SI unit for power is the Watt (W):

$$1 W = 1 \text{ Joule/second} = 1 J/s$$

Work for a constant output of power:

$$W = P \Delta t$$

### H. Potential Energy & Energy Conservation

1. The total energy of a body,  $E$ , is the sum of kinetic,  $K$ , & potential energy,  $U$ ;  $E = K + \Sigma U$

2. **Potential energy** arises from the interaction with a potential from an external force

Potential energy is energy of position;  $U(r)$ ; the form of  $U$  depends on the force generating the potential:

Gravitation:  $U(h) = m g h$

Electrostatic:  $U(r_{12}) = \frac{q_1 q_2}{r_{12}}$

If there are no other forces acting on the system,  $E$  is constant and the system is called conservative

### I. Collisions & Linear Momentum

1. **Types of Collisions**

a. Elastic: conserve energy

b. Inelastic: energy is lost as heat or deformation



2. **Relative Motion & Frames of Reference:** A body moves with velocity  $v$  in frame  $S$ ; in frame  $S'$  the velocity is  $v'$ ; if  $V_{S'}$  is the velocity of frame  $S'$  relative to  $S$ , therefore:  $v = V_{S'} + v'$

3. **Elastic Collision**

Conserve Kinetic Energy:  $\Sigma \frac{1}{2} m v^2 = \Sigma \frac{1}{2} m v'^2$

Conserve Momentum:  $\Sigma m v_i = \Sigma m v_f$

4. **Impulse** is a force acting over time

$$\text{Impulse} = F \Delta t \text{ or } \int F(t) dt$$

Impulse is also the momentum change:  $p_{\text{fin}} - p_{\text{ini}}$

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# Answer Physics Study Guide A Physics Toolkit

**R Barnett**



## **Answer Physics Study Guide A Physics Toolkit:**

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Ilya,Tsybulsky, Dina,2017-03-31 In the digital age the integration of technology has become a ubiquitous aspect of modern society These advancements have significantly enhanced the field of education allowing students to receive a better learning experience Digital Tools and Solutions for Inquiry Based STEM Learning is a comprehensive source of scholarly material on the transformation of science education classrooms through the application of technology Including numerous perspectives on topics such as instructional design social media and scientific argumentation this book is ideally designed for educators graduate students professionals academics and practitioners interested in the latest developments in the field of STEM education **Chatgpt and Other Generative AI Tools** Jochen Kuhn,Stefan Küchemann,Knut Neumann, Martina

Rau,2025-02-17 In the past ten years applications of generative artificial intelligence GAI have found rapidly growing use in medicine science and daily life Large language models LLMs opened up new avenues in particular for education LLMs have been used to create interactive educational content for students stimulate their curiosity generate code explanations and develop assessment questions Additionally LLMs been applied for language practice anxiety alleviation and feedback provision In higher education LLMs have shown potential for assisting in medical exam preparation and clinical decision making In school education LLMs can help teachers with automated evaluation of student responses and respective adaptive feedback More recently LLM based applications such as chatGPT have been used to generate teaching materials or assessment tasks across different subjects The fields understanding of the effects of the use of LLM based applications in classroom teaching however is still in its infancy GAI tools may help solving a range of tasks in education in particular with respect to teachers and students and teachers efforts to generate content However it is critical that teachers and students do

not overly rely on GAI generated solutions but instead critically assess each solution Students should furthermore not use GAI tools to avoid investing relevant mental effort to create mental models or more broadly build up competencies

**Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications** Kats, Yefim, 2010-05-31 This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products review of technologies supporting different aspect of educational process and the best practices and methodologies for LMS supported course delivery Provided by publisher Study Guide with ActivPhysics Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 **Study Guide for CTET Paper 1 (Class 1 - 5 teachers) with Past Questions 4th Edition** Disha Experts, The new edition of the book Study Guide for CTET Paper 1 English Class 1 5 teachers English 5th edition has been updated with the CTET July 2013 to Sep 2016 Solved question papers The languages covered in the book are English 1st language and Hindi 2nd language The book provides separate sections for Child Development Pedagogy English Language Hindi Language EVS and Mathematics Each section has been divided into chapters For each chapter an exhaustive theory has been provided which covers the complete syllabus as prescribed by the CBSE NCERT NCF 2005 This is followed by 2 set of exercises The exercise 1 contains a set of MCQs from the PREVIOUS YEAR Question Papers of CTET and various STET s The exercise 2 TEST YOURSELF provides carefully selected MCQs for practice The book is a must for all the candidates appearing in the Paper 1 of the CTET and State TETs like UPTET Rajasthan TET Haryana TET Bihar TET Uttarakhand TET Punjab TET Tamil Nadu TET etc *LSA magazine* University of Michigan. College of Literature, Science, and the Arts, 1996 **Physics for Scientists and Engineers with Modern Physics** Raymond A. Serway, John W. Jewett, 2004 The Companion Web Site <http://www.pse6.com> newly revised for this edition features student access to Quizzes Web Links Internet Exercises Learning Objectives and Chapter Outlines In addition instructors have password protected access to a downloadable file of the Instructor s Manual a Multimedia Manager demo and PowerPoint files of QUICK QUIZZES *Information and Communication Technologies in Education, Research, and Industrial Applications* Andreas Bollin, Vadim Ermolayev, Heinrich C. Mayr, Mykola Nikitchenko, Aleksander Spivakovsky, Mykola Tkachuk, Vitaliy Yakovyna, Grygoriy Zholtkevych, 2021-05-21 This book contains revised and extended versions of the best papers presented at the 16th International Conference on Information and Communication Technologies in Education Research and Industrial Applications ICTERI 2020 held in Kherson Ukraine in October 2020 Due to the COVID 19 pandemic the conference was held online The 8 revised full papers included in this volume were carefully reviewed and selected from 347 initial submissions The papers are organized in the following topical sections ICT in education ICT in research and industry **ACT Study Guide Premium Prep, 2024: 6 Practice Tests + Comprehensive Review + Online Practice** Barron's Educational Series, Brian Stewart, 2024-01-02 Expert tips and study advice to prepare you for the ACT test Trade and Industrial Education; Instructional Materials Ohio State University. Center for Vocational and

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