



# PHYSICS



## 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 (1-D)

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

b. **Acceleration ( $a$ ):** The rate of change of the velocity with time:  $a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$

$a$  &  $v$  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:  $v_t(t) = v_0 + a t$

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

$$x = v_{x0} t + \frac{1}{2} a_x t^2$$

$$y = v_{y0} t + \frac{1}{2} a_y t^2$$



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

Polar ( $r, \theta$ )  
 $r = r \cos \theta$   
 $r = r \sin \theta$   
 $r^2 = r_x^2 + r_y^2$

### 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.

Spherical  
 $r = r \sin \theta \cos \phi$   
 $r = r \sin \theta \sin \phi$   
 $r = r \cos \theta$   
 $r^2 = r_x^2 + r_y^2 + r_z^2$

### 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>

- 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

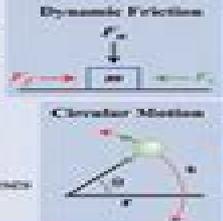
a. **Friction,  $F_f$** , is proportional to the force normal to the part of the body in contact with a surface.

$F_f = F_n \mu$

i. **Static friction** resists the move-ment of a body

ii. **Dynamic friction** slows the motion of a body

For an object on a horizontal plane:  
 $F_f = \mu F_n = \mu m g$   
 Net force =  $F_1 - F_f$



### 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:**  
 $v_t = r \alpha$ ,  $a_t = r \alpha$ ;  $v$  and  $a$  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)**:  
 $1 J = 1 \text{ kg m}^2/\text{s}^2$

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 ( $P$ )** is energy expended per unit time:  
 $P = \frac{d \text{Work}}{d \text{time}} = \frac{d \text{Work}}{dt}$

$$\text{Work} = \int P(t) dt$$

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,  $E_t$ , 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:**  $U(h) = mgh$

**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  $V_0$  is the velocity of frame  $S'$  relative to  $S$ , therefore:  $v = V_0 + v'$

3. **Elastic Collision**  
**Conserve Kinetic Energy:**  $\Sigma \frac{1}{2} m v^2 = \Sigma \frac{1}{2} m v'^2$

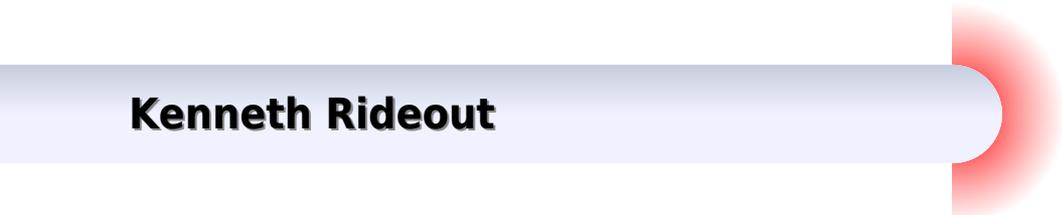
**Conserve Momentum:**  $\Sigma m v_i = \Sigma m v_f$

4. **Impulse** is a force acting over time  
**Impulse =  $F \Delta t$  or  $\int F(t) dt$**

Impulse is also the momentum change:  $P_{fin} - P_{ini}$

# Study Guide For Physics

**Kenneth Rideout**



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fingers The Five Fingers by Gayle Rivers, James Hudson and a great selection of related books, art and collectibles available now at AbeBooks.com. Gizmo - Air Track - Name: Jan Louise Quitoriano Date Nov 1, 2021 — Gizmo Warm-up An air track is a device that helps scientists study motion. Air comes out of holes in the track, allowing the gliders to move ... Air Track Gizmo Answer Key With Activity A & B - Name Contains answers for the Air Track Gizmo online lab name: jaedon angelus date: student exploration: air track directions: follow the instructions to go ... Air Track Simulation | ExploreLearning Gizmos Explore this air track simulation with ExploreLearning Gizmos! Students adjust mass and velocity, measure velocity, momentum, and kinetic energy in ... Air Track Answer Key.pdf - Please Do Not Share joskul Explore: The Gizmo allows you to adjust the mass and initial velocity of each glider. Set up each of the following scenarios, and describe what happens when the ... Student Exploration: Air Track: Name: Akshat Date:12/15/20 Dec 15, 2020 — 1. On the Air Track Gizmo, click Play ( ) to view a collision between the two gliders. What do you see? Both gliders come together and ... AirTrack Answers 1. Explore: The Gizmo allows you to adjust the mass and initial velocity of each glider. Set up each of the following scenarios, and describe what happens when ... Air-track-gizmo-answer-key-with-activity-a-b16.pdf - ... (1) On the Air Track Gizmo, after clicking on the ">" button, it's observed that : the two gliders collide with each - other, and then both travel back to ... Gizmos student exploration air track complete solution 100 ... Respond to the questions and prompts in the orange boxes. Vocabulary: air track, approach velocity, conservation of energy, conservation of momentum, elasticity ... Air Track Gizmos\_ All answers correct\_ 2021 - Stuvia Nov 18, 2021 — Respond to the questions and prompts in the orange boxes. Vocabulary: air track, approach velocity, conservation of energy, conservation of ... Air Track B and C | PDF | Collision | Kinetic Energy Approach velocity = separation velocity:  $v_1 - v_2 = v_2' - v_1'$  ... then substitute this expression into the first equation.) ... check your answers. (The Gizmo cannot ... Toyota Vellfire owner's manual Toyota Vellfire owner's manuals. Below you can find links to download for free the owner's manual of your Toyota Vellfire. Manuals from 2015 to 2015. ... Looking ... Owners Manual - Toyota Vellfire Description. Full Japanese to English translation Owners Manual. Covers Vellfire models - ANH20 ANH25 GGH20 GGH25. Storage wallet with service schedule ... Toyota Alphard and Toyota Vellfire Owners Handbooks ... Toyota Alphard Owners Club - Toyota Alphard and Toyota Vellfire owners handbooks / manuals. ... Toyota Vellfire Owners Handbook. The Toyota Alphard Owners Club Toyota Vellfire Owners Manual Pdf Toyota Vellfire Owners Manual Pdf. INTRODUCTION Toyota Vellfire Owners Manual Pdf .pdf. Owner's Manuals Learn all about your Toyota in one place. The Toyota owner's manuals guide you through important features and functions with instructions you should know. Toyota Vellfire Owners Manual Instruction Item Title Toyota Vellfire Owners Manual Instruction. We are located in Japan. Owner's Manual | Customer Information Find your Toyota's owner's manual by using the search options on our website. You can read it online or download it to read offline whenever you want. Toyota - Vellfire Car Owners User Manual In English | 2008 Description. Toyota - Vellfire Car Owners User Manual In English | 2008 - 2011. Owners handbook for the Japanese Import

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