

AP Physics B Review Sheet

UNITS OF MEASUREMENT

distance / displacement	m
mass	kg
time	s
speed / velocity	m/s
acceleration	m/s ²
force	$N = \frac{kg \cdot m}{s^2}$
pressure	$P_{SI} = \frac{N}{m^2} = \frac{kg}{m \cdot s^2}$
impulse	$N \cdot s = \frac{kg \cdot m}{s}$
momentum	$\frac{kg \cdot m}{s}$
work / energy	$J = N \cdot m = \frac{kg \cdot m^2}{s^2}$
power	$W = \frac{J}{s} = \frac{kg \cdot m^2}{s^3}$
angular displacement	rad
angular velocity	rad/s
angular acceleration	rad/s ²
torque	N·m
moment of inertia	kg·m ²
angular momentum	kg·m ² /s
rotational work/energy	J
frequency	Hz = cycles/s
mass density	kg/m ³
temperature	K or °C
heat	J
entropy	J/K
electric charge	C
electric field	N/C
electric flux	N·m ² /C
electric potential	V = J/C
potential gradient	V/m
capacitance	F = C/V
electric current	A = C/s
electrical resistance	$\Omega = V/A$
resistivity	$\Omega \cdot m$
magnetic field	$T = N \cdot s / C \cdot m$
magnetic flux	Wb = T·m ²
inductance	H = V·s/A

To convert units, make sure you write down units explicitly and treat them as algebraic quantities. You will multiply by conversion factors in the form of fractions so units cancel.

TRIGONOMETRY

$$\sin \theta = \frac{opp}{hyp} \quad \theta = \sin^{-1} \left(\frac{opp}{hyp} \right)$$

$$\cos \theta = \frac{adj}{hyp} \quad \theta = \cos^{-1} \left(\frac{adj}{hyp} \right)$$

$$\tan \theta = \frac{opp}{adj} \quad \theta = \tan^{-1} \left(\frac{opp}{adj} \right)$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

KINEMATICS IN ONE DIMENSION

$$v_{avg} = \frac{\Delta x}{\Delta t} \quad v_{instant} = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t}$$

$$a_{avg} = \frac{\Delta v}{\Delta t} \quad a_{instant} = \lim_{\Delta t \rightarrow 0} \frac{\Delta v}{\Delta t}$$

Variables

x_0
 x
 v_0
 v
 t

Equations

$$v = v_0 + at$$

$$x = x_0 + v_0 t + \frac{1}{2} at^2$$

$$v^2 = v_0^2 + 2a \Delta x$$

1. Make a drawing to represent the situation.
2. Decide which directions are positive relative to a conveniently chosen coordinate system.
3. Write down the values of the kinematic variables. If there are multiple objects, remember that they may share some common variables.
4. Choose the equation which contains the given values and the unknown value.
5. When the motion is divided into segments, remember that the final velocity of one segment is the initial velocity for the next segment.
6. Remember that there may be two possible mathematical solutions, and you need to select the appropriate answer or answers when this occurs.

Free Fall

The acceleration due to gravity at sea-level at the Earth's equator is called one "gee" and is approximately 9.80 m/s².

KINEMATICS IN TWO DIMENSIONS

Separate vectors into components parallel to the axes of the chosen coordinate system.

$$opp = hyp \sin \theta \quad adj = hyp \cos \theta$$

Motion in the x-direction is independent of motion in the y-direction.

Projectile Motion

$$a_x = 0 \text{ m/s}^2$$

$$a_y = 9.80 \text{ m/s}^2 \text{ down}$$

At the apex of the flight (vertex of parabola)

$$v_x = 0 \text{ m/s}$$

At original height on way back down

$$y = y_0$$

$$v_x = v_{0x}$$

$$v_y = -v_{0y}$$

Relative Velocity

v_{AB} is the velocity of A as seen by B

$$v_{AB} = v_{AC} + v_{CB}$$

$$v_{AB} = -v_{BA}$$

DYNAMICS (FORCES)

Inertia is the natural tendency of an object to remain at rest or in motion at a constant velocity. Mass is the quantitative measurement of inertia.

An *inertial reference frame* is one in which Newton's First Law of Motion is valid. The acceleration of any inertial reference frame is always zero.

An object is in *equilibrium* when it has zero acceleration.

Newton's First Law of Motion

An object continues in a state of rest or a state of motion at a constant velocity (speed and direction) unless compelled to change that state by a net external force.

Newton's Second Law of Motion

$$\sum \vec{F} = m \vec{a}$$

The direction of the acceleration is the same as the direction of the net force.

Newton's Third Law of Motion

Whenever a body exerts a force on a second body, the second body will exert an oppositely directed force of equal magnitude on the first body.

This force pair doesn't cancel because they are acting on different objects.

Weight

The force of gravity, F_g , acting on an object is often called the object's *weight*. If the local value of the acceleration due to gravity is known, this is $\vec{F}_g = m \vec{g}$

Normal Force

When an object is in contact with a surface, the *normal force*, F_N , is the component of the force that the surface exerts that is perpendicular to the surface; it is the force that prevents the object from passing through the surface.

Apparent Weight

The *apparent weight* of an object is the force that a scale exerts on the object resting on it, F_{sc} . If the reference frame has an acceleration a where up is positive, then $\vec{F}_{sc} = \vec{F}_g + m \vec{a}$

Tension

Tension is a force applied to one end of a rope or cable that is transmitted to an object attached to the other end of the rope or cable.

If the rope is massless, the force applied to one end would be completely transmitted to the object at the other end. However, ropes do have mass, so some of the force applied is needed to accelerate the rope, which results in a reduced force acting on the attached object.

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Robert Hanna

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