# Advanced Placement Physics

Force

Force		Any pust	or pull		
Menuto	n's I" Law	Law of in	ertia (Restatement of Galileo's principle of inertia)	6	
Newto	n's 2" Law	$\sum F = \kappa$	tra		
Newto	n's 3" Law		d opposite forces. For every action force there is ome in action - reaction pairs.	an equal	& opposite reaction force.
$\Sigma F$	Key to all problems.	$\Sigma F_x$	$\Sigma F$ in $x$ direction on traditional coordinate axis.	$\Sigma F_{r}$	$\Sigma F$ in $y$ direction.

	$\Sigma F_{\ell}$ 1	Σ <i>F</i> parali	lel to a slope (direction of mot	ion). $\Sigma F_1$	ΣF perpendicular to slope.
$\sum F = ma$	Sum of force is Met	t Force	You may need to solve for a	using the kin	ematic equations, then solve

for force, or given force you solve for a and then use it in the kinematic equations to find v, x, or t.

#### Strategy on force Problems:

- Draw FBD.
- Set direction of motion. What would the object do if it could? Considered this the positive direction.
- Using the forces listed below write the ZF equations relevant to the problem. In what direction is the problem. moving? What matters, the x or the y direction? The parallel or the perpendicular direction? Any force vectors in the FBD pointing in the direction of motion are positive while any vectors the other way are negative.
- Substitute known equation, (forces like F<sub>n</sub> become ma).
- Substitute for ZF. Ask yourself what the sum of force should be based on the chart below. Is the object standing still. moving at constant velocity, or accelerating. Substitute zero or ma for 2F.

1	<b>v</b> = 0	$\Delta \mathbf{v} = 0$	a = 0	23F = 0
2	V = +/- a constant value	Av = 0	a = 0	.2F = 0
3	v increasing or decreasing	∆v = +/- a constant value	a = +/- a constant value	ZF = m a

- Plug in and solve. (All values including 9.8 are entered as positives. The negative signs were decided when setting up the sum of force equation. Plugging in -9.8 will just turn a vector assigned as  $-F_a$  into a positive. You decided its sign based on the way it was pointing relative to the problems direction of motion. Don't reverse it now!)
- Fe Push or Pull. Force of gravity.  $F_s = mg$
- F-Tension is a rope, string, etc. This force has no equation. You either solve for it, or it cancels, or it's given.
- $F_{N}$ Force Normal. A contact force, always perpendicular to the surface. (On a tilted surface use  $\Sigma F_{ij} \otimes \Sigma F_{kl}$ )
- $F_{h^*}$ Friction force.  $F_{\mu} = \mu F_{\nu}$  Always opposes motion. Static friction: not moving. Kinetic friction: object moving.
- Fine Force of air resistance. This force has no equation. You either solve for it, or it cancels, or it's given.  $F_{\alpha}$ 
  - Force Centripetal. It is the ZF in circular motion problems. So F<sub>c</sub> can be any force that keeps an object in circular  $F_c = F_g$   $F_c = F_N$   $F_c = F_T$   $F_c = F_N$   $F_c = F_N$ motion.

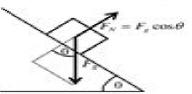
It can also be two or more of these added together. The direction of motion is toward the center. So any force directed toward the center is positive and any force directed outward is negative.

The key in using any of these equations is to ask yourself: 1. What is causing the circular motion? 2. Then set up the equality. 3. Substitute known equations. 4. Solve.

Force due to a magnetic field. This force is perpendicular to the field and perpendicular to the velocity of the particle. So any charged particle will move in a circle. Use the right hand rule for positive charges or positive current, and use the left hand for negative charges or electron current.

Fany subscript that make ssense to solve the problem

Normal force: Gravity pulls the object down the slope and into the slope. If we only consider the motion into the



slope (perpendicular), the object has no perpendicular velocity. So the  $DF_i = 0$ . Then the surface must push upward, equal and opposite to the perpendicular gravity component. Named the normal force, it is a contact force and operates perpendicular to any surface. It must counter only the component of gravity perpendicular to the surface.

 $F_{\scriptscriptstyle N} = F_{\scriptscriptstyle \sigma} \cos heta$  . Where heta is the angle between  $F_{\scriptscriptstyle heta}$  and  $F_{\scriptscriptstyle heta\perp}$ . It is also the tilt angle of the surface measured from the ground. Substituting mg for F<sub>a</sub>.

$$F_N = mg \cos\theta$$

 $F_N = mg \cos \theta$  Flat surfaces  $\theta = \theta^*$ ,  $F_N = F_z$  or  $F_N = mg$ 

 $F_{R}$ 

# **Student Study Guide For Advanced Placement Physics**

**Greg Jacobs** 

#### **Student Study Guide For Advanced Placement Physics:**

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