

AP Physics Study Guide

Unit One: 1D Kinematics and Motion

- **Distance:** the total length of travel from beginning to end (scalar, always positive)
- **Displacement (Δx):** the change in position of an object (vector quantity)
 - **Kinematics Equations:** $v = v_0 + at$, $v^2 = v_0^2 + 2a\Delta x$, $x = x_0 + v_0t + \frac{1}{2}at^2$
- Objects in **free fall** move with a constant downward acceleration of magnitude g
- **Significant Figure Rules:** all non-zero digits are significant, leading zeroes are not significant, trailing zeroes are significant
- **Vector:** quantity with a magnitude and a direction (displacement, acceleration, velocity)
 - Can be added using the tip-to-tail method and connecting first tail to second tip

Unit Two: Projectile Motion

- The constant acceleration kinematics equations can be applied in individual directions too
- **Projectile:** something launched into motion and whose path is determined by gravity
- The **trajectory** is symmetrical from the point it is launched from the time at which it reaches the same y-coordinate in its path

Unit Three: Newton's Laws of Motion

- **Mass (m):** scalar quantity measuring how difficult it is to accelerate an object (linear inertia)
- **Law of Inertia (N1L):** an object in rest will stay at rest, and an object in motion will stay in motion, unless there is a net external force acting on it
- **Newton's Second Law (NSL):** $\Sigma \vec{F} = m\vec{a}$ when force is a vector and so is acceleration
- **Newton's Third Law (N3L):** every force has a reaction force equal in magnitude and opposite in direction that relates to the same object pair as the action force
- **Weight:** the gravitational force that an object exerts on a surface: $W = mg$
- **Apparent Weight:** the force felt from contact with a surface in an accelerating system
- **Normal Force:** a force exerted by a surface that acts perpendicular to the surface
- Use **Free-Body Diagrams** to show the forces acting on an object $\rightarrow$ need for all problems
- **Friction:** force that tries to prevent relative motion between two surfaces in contact
 - **Static Friction:** the friction that builds before there is movement between surfaces
 - **Kinetic Friction:** the friction between two surfaces that are moving
 - **Equations for Friction:** $f_s = \mu_s P_{\perp}$ and $f_k = \mu_k P_{\perp}$, friction is always opposite to motion
- **Object moving in a circular path equations:** $a_{\text{cp}} = \frac{v^2}{r}$ and $F_{\text{cp}} = ma_{\text{cp}} = \frac{mv^2}{r}$
- If an object is moving in a circle, there is a net force provided towards the center of the circle (**centripetal force**)

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