

# AP Physics Study Guide

## **Unit One: 1D Kinematics and Motion**

- **Distance:** the total length of travel from beginning to end (scalar, always positive)
- **Displacement ( $\Delta x$ ):** the change in position of an object (vector quantity)
  - **Kinematics Equations:**  $v = v_0 + at$ ,  $v^2 = v_0^2 + 2ax$ ,  $x = x_0 + v_0t + \frac{1}{2}at^2$
- 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 (N2L):**  $\Sigma F = ma$  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 → 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:**  $f_s = \mu_s F_n$  and  $f_k = \mu_k F_n$ , friction is always opposite to motion
- **Object moving in a circular path equations:**  $a_{\text{cent}} = \frac{v^2}{r}$  and  $F_{\text{cent}} = ma_{\text{cent}} = \frac{mv^2}{r}$
- 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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**Christopher Bruhn**

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