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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: $v = v_a + at$, $v^2 = v_a^2 + 2ats$, $x = x_a + v_at + \frac{1}{2}at^2$
- Objects in free fall more 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

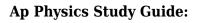
- The constant acceleration kinematics equations can be applied in individual directions too
- Projectile: something launched into motion and whose path is determined by gravity
- The trajectory is symmetrical from the point it is launched from the time at which it reaches the same
 y-coordinate in its 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 (NFL): 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): 2F = 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, = µ,F, and f, = µ,F, friction is always opposite to motion
- Object moving in a circular path equations: $e_{ij} = \frac{m^2}{r}$ and $F_{ij} = me_{ij} = \frac{m^2}{r}$
- 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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