

Forces

3.01B - I can apply Newton's first law (law of inertia) to make predictions in physical situations.
3.02A - I understand the relationship between net force, mass, and acceleration.
3.03B - I can describe how Newton's 3rd Law applies to physical situations and identify 3rd law pairs.
3.04A - I can identify the forces acting on an object/system, and draw a force diagram and/or system schema.
3.05A - I can solve force problems for basic perpendicular balanced forces.
3.05B - I can solve unbalanced force problems in the vertical direction (like elevator problems).
3.05C - I can solve problems for perpendicular forces on an object undergoing a centripetal acceleration.
3.06B - I can use equations to perform basic calculations for force problems that include motion, forces of gravity, friction, and springs. Differentiate static and kinetic friction.
3.06C - I can solve advanced problems that require concepts of motion, friction, and/or springs, requiring more than one model/equation.
3.07A - I can add vectors to find the resultant, and resolve vectors into horizontal and vertical components.
3.07B - I can solve problems when there are balanced or unbalanced forces at an angle.
3.07C - I can solve problems when there are forces acting on an incline or in a rotated system.

Parking Lot

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