



# PHYSICS MECHANICS CORE UNITS

## Unit 1: Scientific Methods

Scientists and science learners have a set of tools for how to design and make sense of experiments to understand the world around us.



## Unit 2: Constant Velocity Particle Model

The motion of an object whose velocity does not change can be represented in many ways. Some objects can be treated as a point particle, i.e., having a position at a single point in space.



## Unit 4: Free Particle/ Balanced Force Model

The sum of all force interactions with an object or system determines whether its velocity will change or not change. Forces are always a two-way interaction between objects.



## Unit 3: Uniform Acceleration Particle Model

The same representational tools used to describe constant velocity can be used to describe the motion of objects whose velocity changes.



## Unit 5: Net Force/ Unbalanced Force Model

When forces on a system are unbalanced, that system accelerates.



## Unit 6: 2D Motion

For projectile motion, the balanced force and constant velocity models describe the motion along a horizontal axis. The unbalanced force and uniform acceleration models describe motion along a vertical axis.



## Unit 8: Energy

Motions within systems can be analyzed in terms of energy exchanges between objects within a system or between a system and surroundings. We can describe energy using a metaphor of a conserved substance-like quantity.



## Unit 7: Central Net Force

A net force along an axis perpendicular to an object's velocity will cause a change in direction rather than a change in speed. When the direction of net force is always exactly perpendicular to velocity, the resulting motion is circular.



## Unit 9: Momentum

As we did with energy, we can use a conservation law to explore how momentum can be exchanged between objects within a system. We also examine how interactions between system and surroundings affect the momentum of objects in a system.



# Modeling Instruction Physics Energy Ws 2 V 3 1

**M Woodhall**



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