



# 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

**SJ Ball**



## **Modeling Instruction Physics Energy Ws 2 V 3 1:**

## Decoding **Modeling Instruction Physics Energy Ws 2 V 3 1**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Modeling Instruction Physics Energy Ws 2 V 3 1**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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