

Physics Study Guide

Forces & Motion

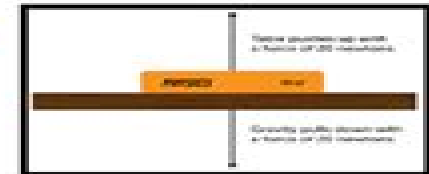
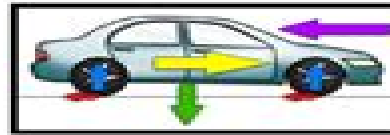
Force = Any push or pull on an object.

Balanced Forces = No Movement.

Unbalanced Forces = Movement.

Net Force = The sum of all forces acting on an object.

Normal Force = The contact force. (Opposite direction gravity on a flat surface.)



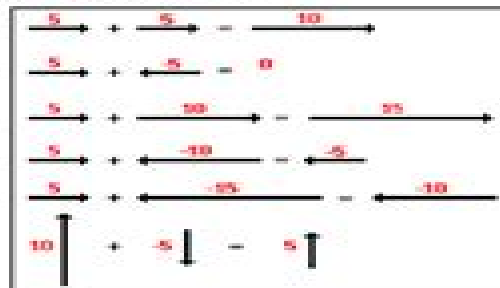
Vectors vs. Scalars

Vectors have Magnitude and Direction

Scalars have Magnitude and NO Direction

Speed is a Scalar

Velocity is a Vector



Speed vs. Velocity

Speed = Distance divided by Time (Scalar)

Velocity = Displacement divided by Time (Vector)



Acceleration

Speeding up.

Slowing down.

Changing direction.

$$a = \frac{V_f - V_i}{t}$$

Newton's Laws

1st Law = Objects at rest will remain at rest object in motion will remain in motion (Inertia)

Momentum = Measures how difficult it is to change the inertia of an object.

Depends on the object's Mass and Velocity.

2nd Law = Force equals mass times acceleration. (An object with more mass will be harder to accelerate)

3rd Law = For every action there is an equal and opposite reaction.

Friction

Any force that resists motion when two surfaces are touching each other.

Friction can produce heat.

Lubricants reduce friction.

Friction is always in the opposite direction of the driving force.

Gravity

The force of attraction between any two objects.

The greater the mass of an object the more gravitational pull it has.

The closer two objects are to each other the more they are attracted to each other.

Acceleration due to Gravity = 9.8 m/s

(Every second an object falls it will move 9.8 m/s faster.)

Terminal Velocity

When air resistance stops a falling object from accelerating.

Types of Friction

Sliding = Surfaces rubbing together.

Static = Surfaces in contact but not moving.

Rolling = Wheels

Centripetal Force

When an object is in a circular motion the centripetal force always points to the **center**.



Secular Motion Physics Study Guide

M Walker



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Table of Contents Secular Motion Physics Study Guide

1. Understanding the eBook Secular Motion Physics Study Guide
 - The Rise of Digital Reading Secular Motion Physics Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Secular Motion Physics Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Secular Motion Physics Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Secular Motion Physics Study Guide
 - Personalized Recommendations
 - Secular Motion Physics Study Guide User Reviews and Ratings
 - Secular Motion Physics Study Guide and Bestseller Lists
5. Accessing Secular Motion Physics Study Guide Free and Paid eBooks
 - Secular Motion Physics Study Guide Public Domain eBooks
 - Secular Motion Physics Study Guide eBook Subscription Services
 - Secular Motion Physics Study Guide Budget-Friendly Options

6. Navigating Secular Motion Physics Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Secular Motion Physics Study Guide Compatibility with Devices
 - Secular Motion Physics Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Secular Motion Physics Study Guide
 - Highlighting and Note-Taking Secular Motion Physics Study Guide
 - Interactive Elements Secular Motion Physics Study Guide
8. Staying Engaged with Secular Motion Physics Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Secular Motion Physics Study Guide
9. Balancing eBooks and Physical Books Secular Motion Physics Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Secular Motion Physics Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Secular Motion Physics Study Guide
 - Setting Reading Goals Secular Motion Physics Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Secular Motion Physics Study Guide
 - Fact-Checking eBook Content of Secular Motion Physics Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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