

Newton's Laws

Big Picture

Newton's laws form the basis for all of mechanics and describe the effects of forces on an object's motion. Newton's laws can be applied to all sorts of problems in mechanics and even some in electrostatics. Anytime a force is involved, Newton's laws will determine the motion of the object the force is acting on.

Key Terms

Inertia: An object's resistance to changes in its motion.

Forces: Any push or pull. SI unit: N

Normal Force (N): The reaction force exerted on an object by the surface that is supporting it. SI unit: N

Friction: The force that acts between moving materials. It always acts opposite the direction of the object's motion or applied force (if the object isn't moving). The frictional force is proportional to the coefficient of friction μ , which depends on the surface the object is moving over, and the normal force N . SI unit: N

Newton's Laws

Newton's First Law

Known as law of inertia, it states that an object in motion tends to stay in motion and an object at rest tends to stay at rest unless acted on by an external force.

- This means that an object moving with a constant velocity, speed, and direction will continue moving with that velocity. An object that is not moving will not move unless there a force acts on it.
- The value of an object's inertia can be measured. Mass is the measure of an object's inertia while it is at rest.

Newton's Second Law

Explains how the force acting on an object will affect its motion. The acceleration a (change in velocity) of an object is directly proportional to the force F exerted on it and inversely proportional to the mass m (inertia) of the object. $F = ma$

- If there are multiple forces on the object, the acceleration is proportional to the net (overall) force.
- Any net force causes an acceleration, but only forces in the direction of motion causes a change in speed.
- Forces applied perpendicular to direction of motion will change the direction of motion, but not the speed.

Free Body Diagrams

The forces on an object are often visualized using a free-body diagram (FBD). FBDs are useful for looking at the different types of forces acting on an object.

Be careful when assigning signs. For each of the x - and y - components, remember which direction is positive and which is negative. Typically the "downward" direction is assigned as the negative direction, but you do not have to follow this convention as long as your signs are consistent.

Coefficient of Static Friction: Coefficient of friction used for objects at rest to determine how much force is required to make it begin moving.

Coefficient of Kinetic Friction: Coefficient of friction used for objects moving across a surface to determine the force resisting the motion.

Tension: Force on an object provided by a wire, string, cable, or similar object.

Newton's Third Law

This law states that for any force exerted by one object on another, the other object exerts an equal force in the opposite direction on the first object. For example, if a person is pushing on a wall, the wall is also pushing back on them with an equal force in the opposite direction.

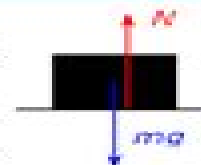
- This law holds for all situations in which objects come into contact, even when the objects are accelerating.
- While it seems like the third law would prevent the object from moving because the reaction force would cancel the initial force, the two forces act on different objects so there is still a net force on the individual objects.
- Pairs of forces described by the third law must be: the same type of force, exerted on two different objects, and equal in magnitude in opposite directions.

Mass on a Table

Gravity is a force that acts on all objects. Near the surface of the Earth, the force due to gravity (F_g) is equal to mg , where g is approximately 9.8m/s^2 .

- mg is what we call the weight of an object. It is not the same thing as mass!

Normal force (N) can be understood using Newton's third law. It is the force opposing gravity so that the net force on both objects (the mass and the table) is zero. $N = mg$



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Uncovering Student Ideas in Physical Science, Volume 1 Page D. Keeley, Rand Harrington, 2010-05-15 This is a must have book if you re going to tackle the challenging concepts of force and motion in your classroom

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ENC Focus, 2000 **SCM Studyguide Church History** Stephen Spencer, 2013-08-30 An introduction to the study of the ways the church has evolved in its corporate life since its birth in the first century Special attention is given to studying its changing relationship and interaction with the surrounding societies in which it has existed The intended readership will be those training for ministry in English speaking churches so the studyguide will concentrate on those aspects of this subject of most relevance to this group This means there will be greater attention to developments in the West than in the East especially in later centuries and to topics such as the nature of ministry the sacraments places of worship authority in the church and mission These will be examined at each period of church history in each chapter to provide reference points of comparison throughout the book Each chapter will also contain a specific case study presenting extracts of some key

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General discussion questions and reading lists will be provided at the end of each chapter The final chapter will provide guidance for the study of the history of the student's own church and community *The Praxis Series Elementary Education Content Knowledge Study Guide Revised 2008* Educational Testing Service, 2009-02-20 Authentic test preparation materials from the people who make the Elementary Education Content Knowledge test **Study Guide with ActivPhysics** Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 Workshop Physics Activity Guide Module 2 Priscilla W. Laws, David P. Jackson, Brett J. Pearson, 2023-08-22 The Workshop Physics Activity Guide is a set of student workbooks designed to serve as the foundation for a two semester calculus based introductory physics course It consists of four Modules with a total of 28 units that interweave text materials with activities that include prediction qualitative observation explanation equation derivation mathematical modeling quantitative experiments and problem solving The modules help students understand the basis of knowledge in physics as interplay between observations experiments definitions and mathematical theory The inquiry based activities in the modules give students the opportunity to work collaboratively to solve problems while thinking critically to make predictions and observations Students use a powerful set of computer tools to record display and analyze data as well as to develop mathematical models of physical phenomena The design of many of the activities is based on the outcomes of physics education research

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Table of Contents Physical Science Study Guide Newtons Laws

1. Understanding the eBook Physical Science Study Guide Newtons Laws
 - The Rise of Digital Reading Physical Science Study Guide Newtons Laws
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Study Guide Newtons Laws
 - 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 a Physical Science Study Guide Newtons Laws
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Study Guide Newtons Laws
 - Personalized Recommendations

- Physical Science Study Guide Newtons Laws User Reviews and Ratings
- Physical Science Study Guide Newtons Laws and Bestseller Lists
- 5. Accessing Physical Science Study Guide Newtons Laws Free and Paid eBooks
 - Physical Science Study Guide Newtons Laws Public Domain eBooks
 - Physical Science Study Guide Newtons Laws eBook Subscription Services
 - Physical Science Study Guide Newtons Laws Budget-Friendly Options
- 6. Navigating Physical Science Study Guide Newtons Laws eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Study Guide Newtons Laws Compatibility with Devices
 - Physical Science Study Guide Newtons Laws Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Study Guide Newtons Laws
 - Highlighting and Note-Taking Physical Science Study Guide Newtons Laws
 - Interactive Elements Physical Science Study Guide Newtons Laws
- 8. Staying Engaged with Physical Science Study Guide Newtons Laws
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Study Guide Newtons Laws
- 9. Balancing eBooks and Physical Books Physical Science Study Guide Newtons Laws
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Study Guide Newtons Laws
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Study Guide Newtons Laws
 - Setting Reading Goals Physical Science Study Guide Newtons Laws
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Study Guide Newtons Laws
 - Fact-Checking eBook Content of Physical Science Study Guide Newtons Laws

- 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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