

Newton's 1st Law - the law of inertia

An object with no net force acting on it remains at rest or in uniform.

- Objects at rest tend to stay at rest.
- Objects in motion tend to move in a straight line at constant speed.

Inertia - A property of matter which resists changes in motion.

The best measure of an object's inertia is its mass.

Force - A push or pull.

Net forces cause the motion of an object to change.

Examples of Newton's 1st Law in Action:

When you're in a car brake
when you're turning in a car.

In the egg demonstration:

Why does the tray fly across the table? Force was applied toward the tray

Why do the cardboard cylinders go with it? The friction force

Why do the eggs drop straight down into the water? is acting like a glue.
The eggs drop straight down because of gravity.

Physics Challenge: Why doesn't a car in motion on a flat road stay in motion?

Friction forces, and air resistance.

Examples of Accelerated Motion:

speeding up : slowing down : starting :
changing direction : stopping : moving in a circle

Inertia resists acceleration.

A net force causes acceleration.

Newton's 2nd Law - the law of acceleration

When a net force is applied to an object the object will accelerate in the direction of that force.

Show What You Know:

1. A 2. C 3. C 4. B 5. D

Note Taking Guide Episode 5physics

Lingjun Ying



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Resources in Education ,1997 **Physics, Uspekhi** ,1996 "Hailing frequencies open" Thomas D. Parham, III,2019-07-15 Star Trek The Next Generation blended speculative science fiction and space opera in its portrayal of communication Multiple modes of communication used between characters are presented and the multilevel tapestry of communication in the series is critical in its appeal This book proposes that these patterns of communication reveal a foundational philosophy of Star Trek while enticing millions of viewers These patterns serve both to cause strong empathetic connections with characters and to impel viewers to form relationships with the show explaining their extreme devotion

Einstein as Myth and Muse Alan J. Friedman,Carol C. Donley,1989-04-13 This book assesses the impact of the revolution in physical theory on literature **Princeton Alumni Weekly** ,1984 **2006 Physics Education Research Conference** Laura McCullough,Paula Heron,Leon Hsu,2007-03-05 Syracuse New York 26 27 July 2006 **Inclusive College Classrooms** Lauren S. Cardon,Anne-Marie Womack,2022-12-27 Inclusive College Classrooms provides instructors with research based practices and tools to create an effective and inclusive classroom environment Filling a visible gap in pedagogical training this important book responds to current barriers to inclusion in higher education by helping instructors improve the methods they are already using and identify new methods that could enhance their courses The inclusive approach in this book is informed by critical pedagogy universal design for learning and intersectional social justice pedagogies The authors identify practices in education that exclude historically marginalized groups and outline teaching strategies that can create more inclusive classrooms where all students can feel heard and represented This timely volume is packed full of hundreds of example lessons from across a range of disciplines tips for moving classes online questions to generate dialogue about various methods and appendices on lesson planning With this book in hand instructors can continually adapt and revise their pedagogy to be more inclusive and effective **The Athenaeum** ,1884 *Resources in Education* ,1997 **The English Catalogue of Books [annual]** Sampson Low,1902 Vols for 1898 1968 include a directory of publishers *TV Guide* ,1991 **The Annual American Catalogue Cumulated** ,1902 **Bulletin of the Atomic Scientists** ,1966-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Abridged Final Report with Resolutions World Meteorological Organization. Executive Council,1998 Kliatt Young Adult Paperback Book Guide ,2002 **Bowker's Directory of Videocassettes for Children 1999** R R Bowker Publishing,Bowker,1999-03 **The Science Teacher** ,1991 **The Times Index** ,2013-03 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement **The Skeptical Inquirer** ,1996 **Illinois Schools Journal** ,1940

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Table of Contents Note Taking Guide Episode 5physics

1. Understanding the eBook Note Taking Guide Episode 5physics
 - The Rise of Digital Reading Note Taking Guide Episode 5physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Note Taking Guide Episode 5physics
 - 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 Note Taking Guide Episode 5physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Note Taking Guide Episode 5physics
 - Personalized Recommendations
 - Note Taking Guide Episode 5physics User Reviews and Ratings
 - Note Taking Guide Episode 5physics and Bestseller Lists
5. Accessing Note Taking Guide Episode 5physics Free and Paid eBooks
 - Note Taking Guide Episode 5physics Public Domain eBooks

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