

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

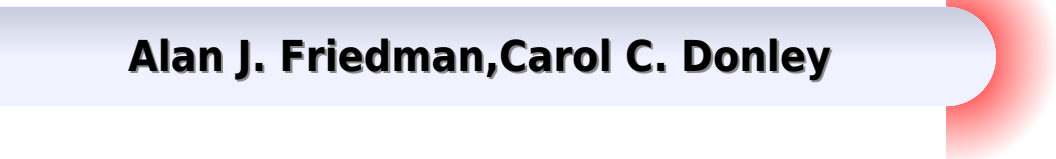
When a net force is applied to an object the object will accelerate in the direction of that force.

Show What You Know:

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

Note Taking Guide Episode 5physics

Alan J. Friedman, Carol C. Donley



Note Taking Guide Episode 5physics:

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

Princeton Alumni Weekly ,1984 *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 Bulletin of the Atomic Scientists ,1970-12 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 *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 **2006 Physics Education Research Conference** Laura McCullough,Paula Heron,Leon Hsu,2007-03-05 Syracuse New York 26 27 July 2006 **The Athenaeum** ,1884 Resources in Education ,1997

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