

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

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Clemens Wendtner



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Resources in Education ,1990 **Educational Times** ,1895 **The Engineer** ,1901 **"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 The Literary World ,1889 English Mechanic and Mirror of Science ,1889 **The Academy** ,1886 **The Cumulative Book Index** ,1903 **The Electrical Review** ,1916 **Engineering** ,1902 *Marine invertebrates and sound* Marta Solé,Michel André,2023-08-21 *American Machinist* ,1903 **Nature** Sir Norman Lockyer,1891 *The Academy and Literature* ,1886 **The Journal of Education** ,1923 *Arts & Humanities Citation Index* ,2001
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