

Newton's 1<sup>st</sup> 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 1<sup>st</sup> 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 2<sup>nd</sup> 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 401 Physicsfundamentals Answers

**Yi-Tong Ma**



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