

Isaac Newton's 3 Laws of Motion

Sir Isaac Newton (1642-1727) was an English physicist and mathematician. Before the age of 30 he formulated the laws of motion and invented calculus. Much of our modern science is based on Newton's

Newton's Laws of Motion

Law One – Law of Inertia

An object at rest will stay at rest unless acted on by an unbalanced force.
 An object in motion will stay in motion unless acted upon by an unbalanced force.

OR

Things keep moving or stay at rest, unless a net force acts upon them.

Law Two – $F = ma$

The acceleration of an object is proportional to the force acting on it and inversely proportional to its mass.

OR

Force causes acceleration, while mass resists acceleration

Law Three –

Law of Equal and Opposite Forces.
 Whenever one object exerts a force on another object, the second exerts an equal and opposite force on the first.

OR

For every action there is an equal and opposite reaction.

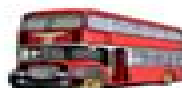
Inertia

Inertia is the property of an object that resists change of motion.

Moving objects have inertia: they want to keep moving;
 stopped objects have inertia: they want to stay at rest.

More mass = more inertia!

Something that is harder to push has more inertia!



More mass, more inertia



Less mass, less inertia

Force

A **force** is any action that can change or cause motion.
A force is any push or pull.
 We use Newtons (N) to measure force.

Net Force

Net force is the sum of all the forces and has direction. (Be sure to make right positive and left negative.)

An object will move in the direction of the net (or unbalanced) force.



$$\text{Net Force} = +200\text{ N} - 400\text{ N} = -200\text{ N (left)}$$

Newton's Second Law

Force
(in Newtons)

$$F = ma$$

Mass
(in kg)

Acceleration
(in m/sec^2)

Force equals mass times acceleration.

$F = ma$ tells us:

For the same acceleration,
more mass

requires more force.

For the same mass,
more acceleration
requires more force.



Newton's 2nd Law tells us that when you accelerate (stomp on the gas) or decelerate quickly (brake fast) you use more force and wear out engine parts and brakes faster.

Ex. How big a force does it take to give a 50 kg object an acceleration of 40 m/s^2 .

Variables:

$$40\text{ m/s}^2 = a$$

$$50\text{ kg} = m$$

$$F = ?$$

Solve:

$$F = ma$$

$$F = 50(40)$$

$$F = 50 \times 40$$

$$F = 2000\text{ N}$$

Equation:

$$F = ma$$

Ex. If a 50 N force pulls on a 10 kg object, how much acceleration will occur?

Variables:

$$50\text{ N} = F$$

$$10\text{ kg} = m$$

$$a = ?$$

Solve:

$$F = ma$$

$$50 = 10a$$

$$\frac{50}{10} = \frac{10a}{10}$$

$$a = 5\text{ m/s}^2$$

Equation:

$$F = ma$$

Ex. A force of 49 N causes a 7 m/s^2 acceleration. Find the mass of the object it was pulling.

Variables:

$$49\text{ N} = F$$

$$7\text{ m/s}^2 = a$$

$$m = ?$$

Solve:

$$F = ma$$

$$49 = m7$$

$$\frac{49}{7} = \frac{m7}{7}$$

$$m = 7\text{ kg}$$

Equation:

$$F = ma$$

Cstephenmurray Ch 3 1 Answers

Liying Dong



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