

# 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*

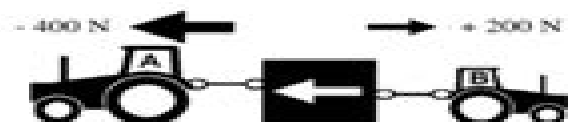
### Force

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.*



Net Force = + 200 N - 400 N = - 200 N (left)

### Newton's Second Law

Force  
(in Newtons)

$$F = ma$$

Mass  
(in kg)

Acceleration  
(in m/sec<sup>2</sup>)

*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<sup>2</sup>.*

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<sup>2</sup> 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:

$$F = ma$$

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**David Kirk**



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**Bridges: Isaac Newton and His Laws of Motion** Mona Chiang, 2011 Readers learn about the life of Isaac Newton and his laws of motion

**Laws of Motion and Isaac Newton** Fred Bortz, 2013-12-15 One of the greatest scientific minds of the past 500 years Sir Isaac Newton laid the groundwork for the theory of gravity and the laws of motion This volume dedicated to his life and work goes beyond the biography of a great and sometimes controversial man It also addresses the lives of others who influenced and were influenced by his findings Additionally it explores and explains the science at the heart of his work and how we continue to study it today

**Sir Isaac Newton** Kerri O'Donnell, 2006-08-01 Explores the laws of motion and how they can be used to solve math problems *An Examination of the third and fourth definitions of the first Book of Sir Isaac Newton's Principia and of the three Axioms or Laws of Motion* Robert YOUNG (Social Reformer.), Sir Isaac Newton, 1787

**Isaac Newton and the Laws of the Universe** Jane Weir, 2007-08-03 Learn about the incredible life of Isaac Newton in this biography Colorful photos supportive text and engaging sidebars will captivate readers as they learn how Newton researched gravity acceleration deceleration motion and light spectrum

**What Are Newton's Laws of Motion ,** Isaac Newton and the Laws of Motion Jordi Bayarri Dolz, 2023 **An Essay on Sir Isaac Newton's Second Law of Motion ...** William Ludlam, 1780 An Illustration of Sir Isaac Newton's Method of Reasoning by Prime and Ultimate Ratios; Comprehending the First Section of His Principia, and as Much of the Second and Third Sections as is Necessary to Explain the Motions of the Heavenly Bodies. By ... T. Newton, Etc Sir Isaac Newton, 1805

**Newton's Principia** Isaac Newton, 2020-06-05 It was Isaac Newton s Principia that founded the law of universal gravitation on 5th July 1687 It is the same principia that inspired Albert Einstein into formulating the Einstein field equations the general relativity theory It is still the same principia I believe will lead us to the quantum theory of gravity Quantum gravity According to Newton s Principia the force of gravity governs the movement of bodies in the solar system It is this simple mathematical law which determines the motion of bodies The force of gravity accurately predicts the planetary orbits it was used to put the first man on the moon it predicts the return of comets the rotation of galaxies the solar eclipses artificial satellites satellite communications and television the GPS and interplanetary probes I almost forgot it is why NASA was established in the first place The book has an active table of contents for readers to access each chapter

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**Isaac Newton and the Laws of Motion** Eileen S. Coates,2018-12-15 Isaac Newton an English physicist and mathematician made many significant contributions to the scientific revolution of the 17th century This book discusses Newton s three laws of motion and provides readers with biographical information relevant to his scientific and mathematical discoveries Photographs and illustrations from the period of study further demonstrate the STEM concepts required for Newton to arrive at his discoveries while fact boxes provide readers with supplementary information to the main text *Isaac Newton and the Laws of Motion* Andrea Gianopoulos,2007 For use in schools and libraries only Presents in graphic novel format Newton s formation of his three laws of motion *Isaac Newton and the Laws of Motion* Andrea Gianopoulos,2007 In graphic novel format tells the story of how Isaac Newton developed the laws of motion and the law of universal gravitation Provided by publisher

**Isaac Newton and His Laws of Motion Teacher's Guide** Benchmark Education Company, LLC Staff,Mona Chiang,2007-01-01 Readers learn about the life of Isaac Newton and his laws of motion

**A Student's Guide to Newton's Laws of Motion** Sanjoy Mahajan,2020-03-31 Newton s laws of motion which introduce force and describe how it affects motion are the gateway to physics yet they are often misunderstood due to their many subtleties Based on the author s twenty years of teaching physics and engineering this intuitive guide to Newton s laws of motion corrects the many misconceptions surrounding this fundamental topic Adopting an informal and pedagogical approach and a clear accessible style this concise text presents Newton s laws in a coherent story of force and motion Carefully scaffolded everyday examples and full explanations of concepts and equations ensure that all students studying physics develop a deep understanding of Newton s laws of motion

**The Principia** Sir Isaac Newton,2010-12-29

Sir Isaac Newton's *Principia Mathematica* (Mathematical Principles) is considered to be among the finest scientific works ever published. His grand unifying idea of gravitation with effects extending throughout the solar system explains by one principle such diverse phenomena as the tides, the precession of the equinoxes, and the irregularities of the moon's motion. Newton's brilliant and revolutionary contributions to science explained the workings of a large part of inanimate nature mathematically and suggested that the remainder might be understood in a similar fashion. By taking known facts, forming a theory that explained them in mathematical terms, deducing consequences from the theory, and comparing the results with observed and experimental facts, Newton united for the first time the explication of physical phenomena with the means of prediction. By beginning with the physical axioms of the laws of motion and gravitation, he converted physics from a mere science of explanation into a general mathematical system.

**Isaac Newton and His Laws of Motion** Mona Chiang, 2011. Learn about Isaac Newton's laws of motion and how the math behind them led scientists to make great discoveries that changed the world. Set of 6 with Teacher's Guide and Comprehension Question Card.

**Newton's Principia** Isaac Newton, 2016-09-26. *Mathematical Principles of Natural Philosophy*, often referred to as simply the *Principia*, is a work in three books by Isaac Newton in Latin, first published 5 July 1687. The *Principia* states Newton's laws of motion, forming the foundation of classical mechanics; Newton's law of universal gravitation; and a derivation of Kepler's laws of planetary motion, which Kepler first obtained empirically. The *Principia* is justly regarded as one of the most important works in the history of science. Alexis Clairaut assessed it in 1747: "The famous book of mathematical Principles of natural Philosophy marked the epoch of a great revolution in physics. The method followed by its illustrious author Sir Newton spread the light of mathematics on a science which up to then had remained in the darkness of conjectures and hypotheses. A more recent assessment has been that while acceptance of Newton's theories was not immediate by the end of a century after publication, no one could deny that out of the *Principia*, a science had emerged that at least in certain respects so far exceeded anything that had ever gone before that it stood alone as the ultimate exemplar of science generally."

**Isaac Newton and the Laws of Motion [Scholastic]** Andrea Gianopoulos, Charles Barnett III, 2010-07-01. Tells the story of how Isaac Newton developed the laws of motion and the law of universal gravitation. Written in graphic novel format.

**NEWTONS PRINCIPIA THE MATHEMAT** Isaac 1642-1727 Newton, Andrew Tr Motte, N. W. Chittenden, 2016-08-28. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps, as most of these works have been housed in our most important libraries around the world, and other notations in the work. This work is in the public domain in the United States of America and possibly other nations. Within the United States, you may freely copy and distribute this work as no entity, individual or corporate, has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages.

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