Period:

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 unbalance 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 exert 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!



Morre music, morre imeritia



Lexis mans, fests intertia

Force

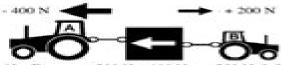
A force is any action that can change or cause motion.

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 more in the direction of the net (or unbalanced) force.



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

Newton's Second Law



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/s².

Variables: Solve: $40 \text{ m/s}^2 = a$ F = ma 50 kg = m F = 50(40) F = 2 $F = 50 \times 40$

Equation: F = 2000N F = ma Ex. If a 50 N force pulls on a 10 kg object, how much acceleration will occur?

Ex. A force of 49 N causes a 7 m/s² acceleration. Find the mass of the object it was pulling.

Variables: Solve: 49 N = F $7 \text{ m/s}^2 = a$ m = ? Equation: F = ma F = ma

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Sir Isaac Newton

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pt.1. [A treatise on physics Jacques Rohault,1735 Sir Isaac Newton's Mathematical principles of natural philosophy and his system of the world ,1934 Notebook Isaac Newton, 1661 Newton's Opticks Isaac Newton, 2024-08-08 One of Isaac Newton's most influential works this classic treatise on the principles of colour and light presents his groundbreaking experiments and discoveries regarding the colour spectrum and the nature of light Opticks is a landmark publication that laid the foundation for modern colour science First published in 1704 Newton details his experiments with light prisms and the colour spectrum which led to the establishment of colour theory. His pioneering ideas led to insights into reflection refraction and the behaviour of light waves revolutionising the field of optics Highly detailed and thoroughly illustrated Newton's Opticks is a cornerstone text on the history of science the nature of light and the origins of modern optics. This new edition from Read Co Books also features a biography of Isaac Newton It is an essential textbook for those interested in his revolutionary work and the physics of light and colour The Three First Sections and Part of the Seventh Section of **Newton's Principia** Isaac Newton, 2023-07-18 This groundbreaking work by the English scientist Isaac Newton is one of the most important works in the history of science Published in 1687 it laid the foundations for modern physics and mathematics introducing the concept of gravity and explaining the movements of celestial bodies This edition includes the first three sections and part of the seventh section of the work with extensive annotations and commentary to help readers understand the significance and context of Newton's ideas 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 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 Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant Opticks Sir Isaac Newton, 2013-04-13 Sir Isaac Newton 1642 1727 is without a doubt one of the most well known and influential scientists in history he made incalculable contributions to the fields of physics mathematics astronomy philosophy and theology From 1670 to 1672 Newton lectured on optics while developing his theory of color This led to his invention of the refracting telescope in 1672 which would correct chromatic aberration in the traditional refracting telescope and so impressed the Royal Society that they encouraged him to publish his work Opticks was Newton's second major contribution in this field and offered new insights into the nature of color light and the phenomena of diffraction The book also includes Newton's Queries which address a wide range of physical phenomena include the nature and transmission of heat the possible cause of gravity electrical phenomena chemical action and ethics of both science and human conduct On Sir Isaac Newton's First Solution of the Problem for finding the relation between resistance and gravity ... From the Transactions of the Royal Irish

Academy ... 1807 John BRINKLEY (Bishop of Cloyne.), Sir Isaac Newton, 1808 The First Three Sections of Newton's **Principia** Isaac Newton.1826 The Mathematical Papers of Isaac Newton Sir Isaac Newton,1979 Isaac Newton's Scientific Method William L. Harper, 2011-12-08 Isaac Newton's Scientific Method examines Newton's argument for universal gravity and his application of it to resolve the problem of deciding between geocentric and heliocentric world systems by measuring masses of the sun and planets William L Harper suggests that Newton's inferences from phenomena realize an ideal of empirical success that is richer than prediction Any theory that can achieve this rich sort of empirical success must not only be able to predict the phenomena it purports to explain but also have those phenomena accurately measure the parameters which explain them Harper explores the ways in which Newton's method aims to turn theoretical questions into ones which can be answered empirically by measurement from phenomena and to establish that propositions inferred from phenomena are provisionally accepted as guides to further research This methodology guided by its rich ideal of empirical success supports a conception of scientific progress that does not require construing it as progress toward Laplace s ideal limit of a final theory of everything and is not threatened by the classic argument against convergent realism Newton's method endorses the radical theoretical transformation from his theory to Einstein's Harper argues that it is strikingly realized in the development and application of testing frameworks for relativistic theories of gravity and very much at work in cosmology today The Optical Papers of Isaac Newton Isaac Newton,1984 The Mathematical Papers of The Mathematical Papers of Isaac Newton Isaac Newton, 1967 **Isaac Newton** D. T. Whiteside.1974 Opticks Isaac Newton, 2017-08-30 Sir Isaac Newton's classic treatise on the nature of light and the study of optics Naturalis Principia Mathematica (Latin) Isaac Newton, 2023-10-01 Philosophiae Naturalis Principia Mathematica by Sir Isaac Newton Delve into the foundational work of modern physics and mathematics in Philosophiae Naturalis Principia Mathematica by Sir Isaac Newton This groundbreaking book presents Newton's laws of motion and universal gravitation revolutionizing our understanding of the physical world Key Aspects of the Book Philosophiae Naturalis Principia Mathematica Scientific Revolution Sir Isaac Newton's work marked a profound shift in scientific thought introducing the principles of classical mechanics that still form the basis of physics today Mathematical Rigor The book is renowned for its mathematical precision and rigorous proofs setting a new standard for scientific inquiry Enduring Influence Principia Mathematica laid the groundwork for centuries of scientific discovery and remains a cornerstone of physics Sir Isaac Newton was an English mathematician physicist and astronomer who made significant contributions to various fields of science and mathematics Philosophiae Naturalis Principia Mathematica is a testament to his genius and legacy **Opticks** Isaac Newton, 2023-07-18 A seminal work by Isaac Newton Opticks contains discussions of the properties of light color perception and the propagation of light A must read for anyone interested in the history of science and mathematics 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 is

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Table of Contents Cstephenmurray Answer Key Physics Isaac Newton S

- 1. Understanding the eBook Cstephenmurray Answer Key Physics Isaac Newton S
 - o The Rise of Digital Reading Cstephenmurray Answer Key Physics Isaac Newton S
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Cstephenmurray Answer Key Physics Isaac Newton S
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cstephenmurray Answer Key Physics Isaac Newton S
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Cstephenmurray Answer Key Physics Isaac Newton S
 - Personalized Recommendations
 - Cstephenmurray Answer Key Physics Isaac Newton S User Reviews and Ratings
 - Cstephenmurray Answer Key Physics Isaac Newton S and Bestseller Lists
- 5. Accessing Cstephenmurray Answer Key Physics Isaac Newton S Free and Paid eBooks
 - Cstephenmurray Answer Key Physics Isaac Newton S Public Domain eBooks
 - Cstephenmurray Answer Key Physics Isaac Newton S eBook Subscription Services
 - Cstephenmurray Answer Key Physics Isaac Newton S Budget-Friendly Options
- 6. Navigating Cstephenmurray Answer Key Physics Isaac Newton S eBook Formats

- o ePub, PDF, MOBI, and More
- Cstephenmurray Answer Key Physics Isaac Newton S Compatibility with Devices
- Cstephenmurray Answer Key Physics Isaac Newton S Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Cstephenmurray Answer Key Physics Isaac Newton S
 - Highlighting and Note-Taking Cstephenmurray Answer Key Physics Isaac Newton S
 - o Interactive Elements Cstephenmurray Answer Key Physics Isaac Newton S
- 8. Staying Engaged with Cstephenmurray Answer Key Physics Isaac Newton S
 - o Joining Online Reading Communities
 - o Participating in Virtual Book Clubs
 - Following Authors and Publishers Cstephenmurray Answer Key Physics Isaac Newton S
- 9. Balancing eBooks and Physical Books Cstephenmurray Answer Key Physics Isaac Newton S
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cstephenmurray Answer Key Physics Isaac Newton S
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cstephenmurray Answer Key Physics Isaac Newton S
 - Setting Reading Goals Cstephenmurray Answer Key Physics Isaac Newton S
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cstephenmurray Answer Key Physics Isaac Newton S
 - Fact-Checking eBook Content of Cstephenmurray Answer Key Physics Isaac Newton S
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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