

Name: _____
 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 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.

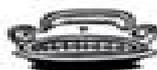
Moving objects have inertia: they want to keep moving;
 stopped objects have inertia: they want to stay at rest.

More mass = more inertia!

Something that is harder to push has more inertia!



More mass, more inertia



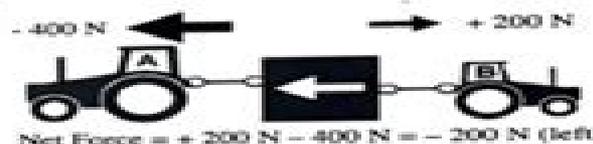
Less mass, less inertia

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.

Newton's Second Law

$$\text{Force (in Newtons)} \rightarrow F = ma$$

\swarrow Mass (in kg)
 \searrow Acceleration (in m/s^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: $F = ma$ $F = 50(40)$ $F = 50 \times 40$ $F = 2000N$
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: $F = ma$ $50 = 10a$ $\frac{50}{10} = \frac{10a}{10}$ $5 = a$
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: $F = ma$ $49 = m7$ $\frac{49}{7} = \frac{m7}{7}$ $7 = m$
Equation: $F = ma$	

Stephen Murray Linear Motion 5 Answers

New York (N.Y.)



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Computer Vision - ECCV'98 Hans Burkhardt, Bernd Neumann, 1998-05-26 This two volume set constitutes the refereed proceedings of the 5th European Conference on Computer Vision ECCV 98 held in Freiburg Germany in June 1998 The 42 revised full papers and 70 revised posters presented were carefully selected from a total of 223 papers submitted The papers are organized in sections on multiple view geometry stereo vision and calibration geometry and invariances structure from motion colour and indexing grouping and segmentation tracking condensation matching and registration image sequences and video shape and shading motion and flow medical imaging appearance and recognition robotics and active vision and motion segmentation Mathematical Reviews ,2005 **Index of Patents Issued from the United States Patent and Trademark Office** ,1991 **The Bookseller** ,1976 **Index of Patents Issued from the United States Patent Office** ,1982 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960 **Science Libraries Consolidated Short-title Catalog of Books** University of Rochester. Library,1967 **American Journal of Physics** ,1976 **The City Record** New York (N.Y.),1906 Includes Official canvas of votes varies slightly 1878 1943 *Index of Mathematical Papers* ,1985 **Books in Print** ,1981 *Current Index to Statistics, Applications, Methods and Theory* ,1998 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields Books in Print Supplement ,1982 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,1986 **AMSTAT News** American Statistical Association,1999 Release Print ,1994 **Computer Books and Serials in Print** ,1984 Official Gazette of the United States Patent Office United States. Patent Office,1972 The Engineering Index Bioengineering and Biotechnology Abstracts ,1990 **Dissertation Abstracts** ,1970

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