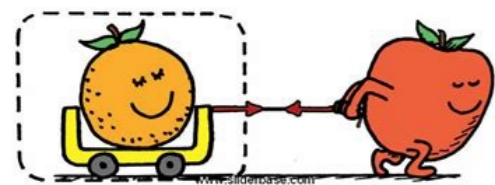


I'm not robot!

Newton's Third Law of Motion

- Consider the orange and the apple pulling on it.
 - Action and reaction do not cancel (because they act on different things).
 - External force by apple accelerates the orange.



NEWTON'S LAWS

Newton's First Law

An object at rest will stay at rest, and an object in motion will remain in motion UNLESS acted upon by an unbalanced force.

IN OTHER WORDS...

A toy car that is sitting on a sidewalk will never, ever move unless someone pushes it to start motion. Then the toy car will never, ever stop moving until a force stops it.



Law of Inertia

Newton's First Law is sometimes called the Law of Inertia. Inertia is an object's tendency to resist changes in motion. When a car breaks quickly, the passenger is sometimes thrown forward in his seat because his inertia is trying to keep him going forward.

Want to see Newton's First Law in action? Click on the link below.

<http://mybigcampus.com/library/210493>

Newton's Second Law

$$F = M \times A$$

IN OTHER WORDS...

To make an object accelerate, or move, you have to apply a force. The greater the mass of the object, the more force needed to make it accelerate. For this reason, a 50 kg rock is much harder to move than a 5 g rock.

$$F = ma$$



Click on the link below to hear a fun song about Newton's Second Law of Motion.

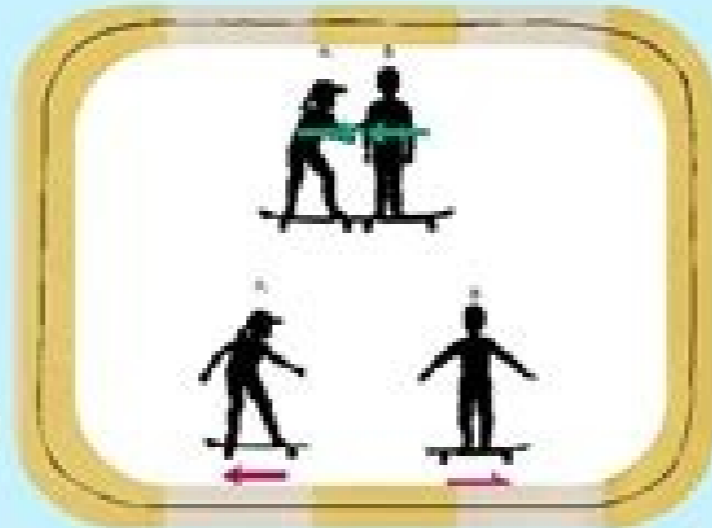
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Newton's Third Law

For every action, there is an equal and opposite reaction.

IN OTHER WORDS...

Two children on skateboards are standing side by side. The action takes place when one child pushes the other. The reaction is when both skateboards roll in opposite directions.



Click on the link below to learn more about Newton's Third Law of Motion.

<https://www.khanacademy.org/science/physics/forces-newtons-laws/newtons-laws-of-motion/v/newton-s-third-law-of-motion>

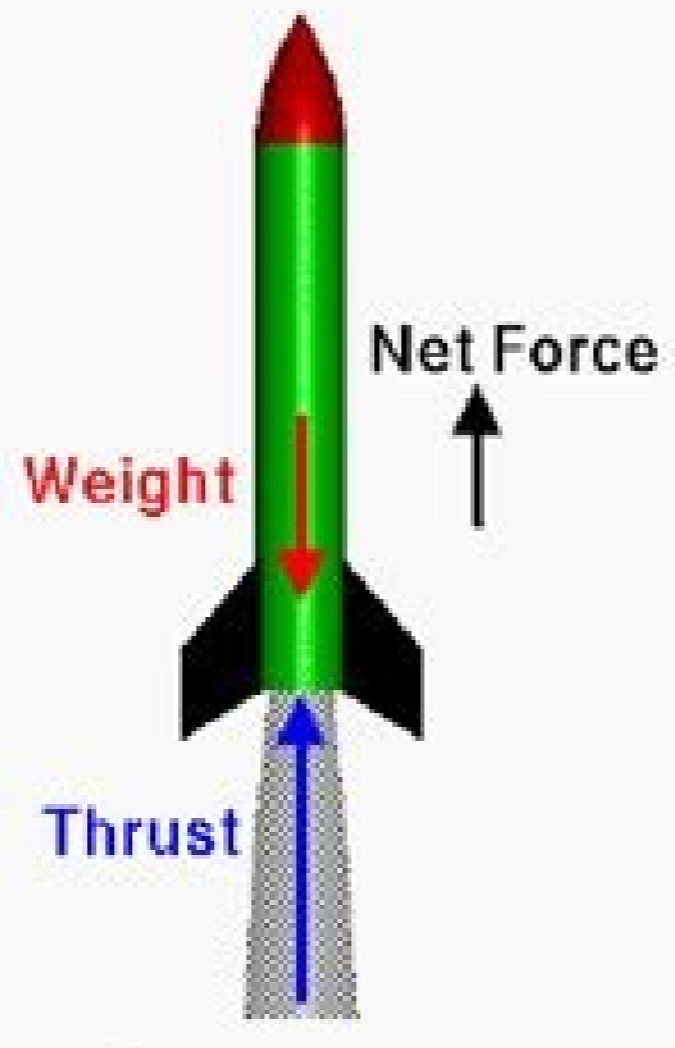




Newton's First Law Applied to Model Rocket Liftoff

Glenn
Research
Center

"Every object persists in its state of rest or uniform motion in a straight line unless it is compelled to change that state by forces impressed on it."



Before release:
Object in state of rest, airspeed zero.

Engine fired:
Thrust increases from zero.
Weight decreases slightly as fuel burns.

When Thrust is greater than Weight:
Net force (Thrust – Weight) is positive upward.
Rocket accelerates upward -- Velocity increases from zero.

Newton's third law in simple words. Newton's third law worksheet answers physics classroom. Newton's third law with examples. Newton's third law simple terms.

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