

# Sir Isaac Newton

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1642-1726, English physicist, mathematician, astronomer, natural philosopher, alchemist, and theologian.

Newton's law of universal gravitation states that every particle attracts every other particle in the universe with a force that is directly proportional to the product of their masses and inversely proportional to the square of the distance between their centers.

Newton's second law of motion states that the acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass. This is often written as  $F = ma$ .