

# Isaac Newton

Natural  
Philosopher

✉ isaac.newton@trin.cam.ac.uk  
☎ +44 1223 338400  
in in/isaacnewton

## about

I invented calculus and gravity. I also wrote a few important papers on optics, planetary motion, and math.

## education

1667

**MA**  
**Mathematics and**  
**Physics**

Cambridge  
*Trinity College*

1665

**BA**  
**Philosophy**

Cambridge  
*Trinity College*

## skills

alchemy, astronomy, calculus, casual ocular needle insertion, finding roots of functions, heliocentricity, latin, mechanics, optics, planetary motion, public speaking, writing papers,

## experience

**Trinity College,**  
**Cambridge**

1669 – 1702

Lucasian Professor of  
Mathematics

Mainly mathematical sciences, but also the study of alchemy and biblical chronology. I generalized the binomial theorem to allow real exponents other than nonnegative integers. Also devised a method for finding successively better approximations to the roots (or zeroes) of a real-valued function, it's called "Newton's method"

**Trinity College**

1661 – 1664

Valet

Tending to my employer as his personal assistant. I was a subsizar to help pay for studies at Trinity College.

**Farm**

1659 – 1661

Farmer

Tedious and laborious farm work. I hated it. My mother made me do it after my dumb step-father died again.

## publications

I. Newton. *Opticks, or, a treatise of the reflections, refractions, inflections & colours of light* [1704]

I. Newton. *The principia: mathematical principles of natural philosophy* [1687]

I. Newton, J. Colson. *The method of fluxions and infinite series; with its application to the geometry of curve-lines* [1736]

I. Newton. *De motu corporum in gyrum*. Late, 1684:55

I. Newton. *Arithmetica universalis* [1732]