

His Formative Years

AIP

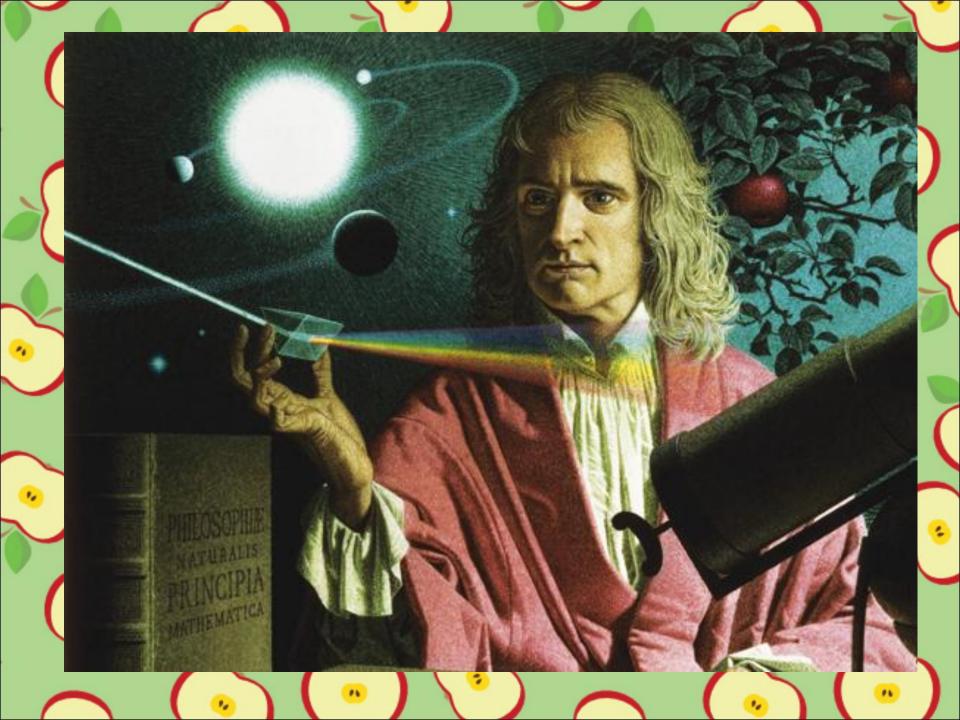
Newton residence, circa 1689

- Born on December 25, 1642 (January 4, 1648) in Woolsthorpe, Lincolnshire, England
- Raised by his grandparents
- Pulled out of school at 14 to run the family farm
 - Wasn't good at farming, so they sent him back to school

Schooling 🛛

ewton in about 1702

- Entered Trinity College at Cambridge University at age
 18 and began studying to become a minister
- Graduated at age 23
 Returned to the farm because of the Black Death
 - He got bored and ended up working on the binomial theorem, light, telescopes, calculus, and theology



Calculus

Started developing Calculus as early as 1666 but never really got around to publishing much In about 1668, Wilhelm Leibniz began developing very similar ideas and published them before Newton's published his work Arguing ensued (Leibniz used dy/dx notation; Newton used y



Post-Modern Newton

Opticks (

Newton in the Lab

Discovered that light is made up of a spectrum of colors Made the first telescope that used a curved mirror instead of lenses

Believed that light was made up of "corpuscles" rather than waves (Hooke and Huygens disagreed)

Didn't publish any of this until the after the death of Hooke in

1703



Apples and Stuff

GRAVITY

IS A LIE!

Laws
 Proved that the force of gravity is inversely proportional to distance squared
 After conquering gravity, motion and

Formulated Newton's

optics, decided to work on changing lead into gold

Religious Views

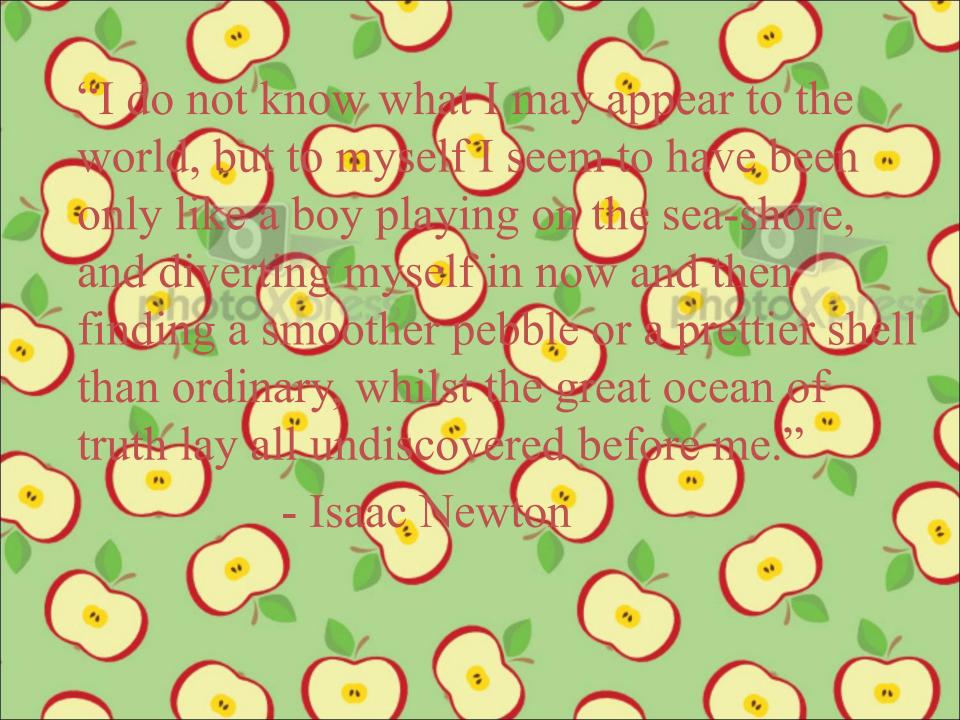
Wrote a book about the fall of Christianity in the 4th Century A.D. "This most beautiful system of the sun, planets, and comets, could only proceed from the counsel and dominion of an intelligent Being ... This Being governs all things ... as Lord of all. ... Atheism is so senseless. When I look at the solar system, I see the earth at the right distance from the sun to receive the proper amounts of heat and light. This did not happen by chance"

His religious ideas got him in trouble because he taught at a church-run

university

Newtonian Trivia

- Became Master of the Royal Mint in 1699
- First scientist to be knighted for his work (1708)
- Elected President of the Royal Society every year from 1703 to 1727
 - Member of Parliament (1689-1690)
 - Died in 1727



ЗДРАВСТВУЙТЕ

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