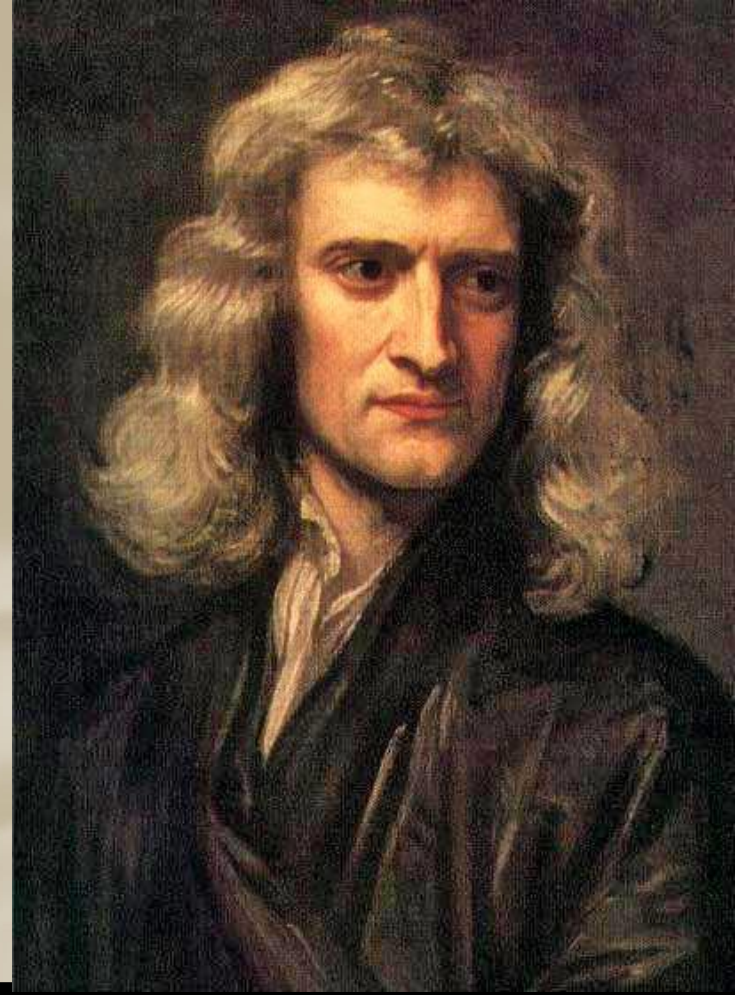


Sir Isaac Newton



Students: Shibaeva D., Nezaimai T. (4 course)

Teacher: Matveeva E.F.

“Nature and Nature's laws lay hid in night
God said ‘Let Newton be!’
And all was light”

- *Alexander Pope*

His Formative Years

- Sir Isaac Newton is one of the most influential scientists of all time. He came up with numerous theories and contributed ideas to many different fields including physics, mathematics and philosophy.



The Newton residence

His Formative Years

- Born on December 25, 1642 (January 4, 1643) in 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

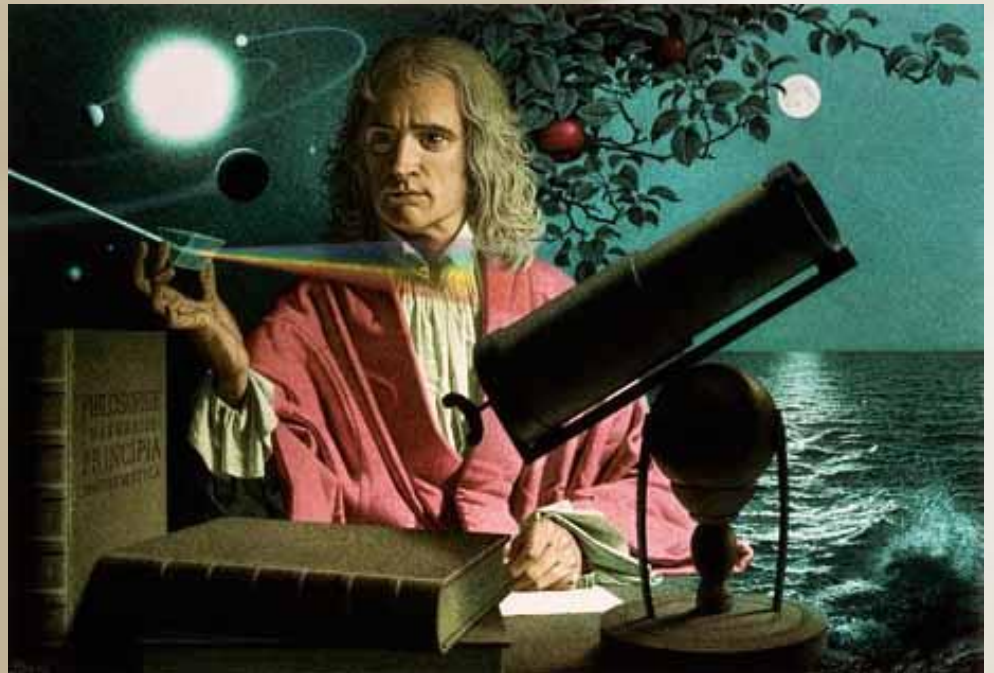
- Entered Trinity College at Cambridge University at age 18 and began studying to become a minister Graduated at age 23



Newton in about 1702

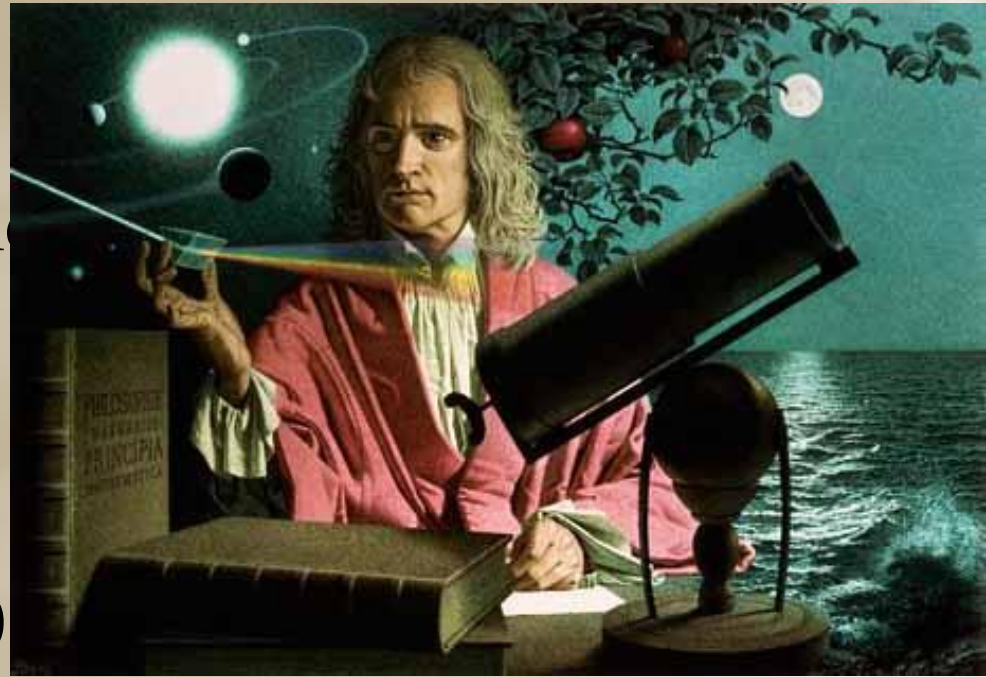
Optics

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



Optics

- 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

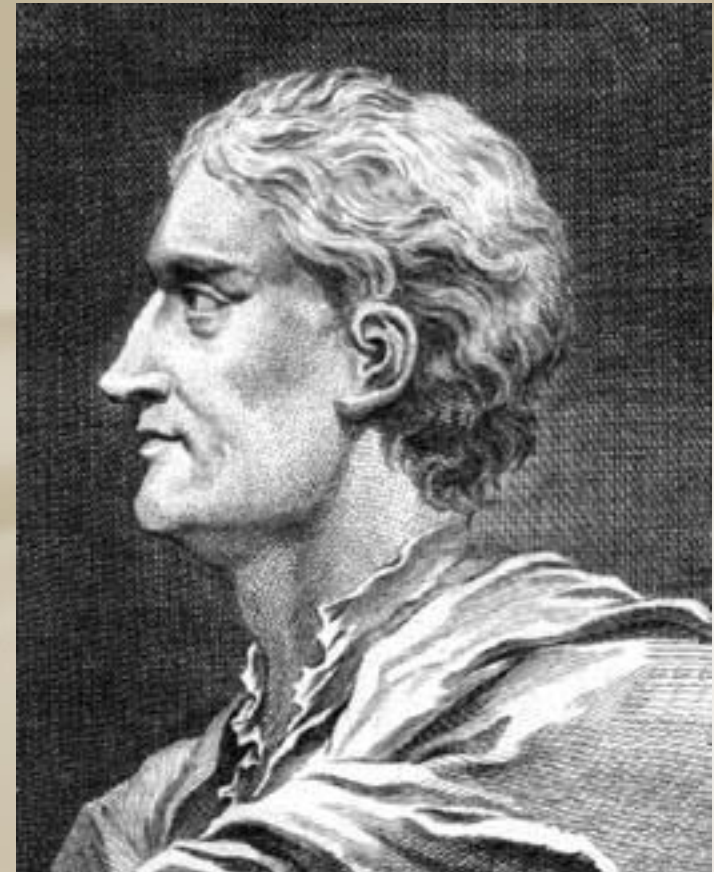


Isaac Newton's telescope



Apples and Stuff

- Formulated Newton's Laws
- Proved that the force of gravity is inversely proportional to distance squared
- After conquering gravity, motion and 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.



Some interesting facts

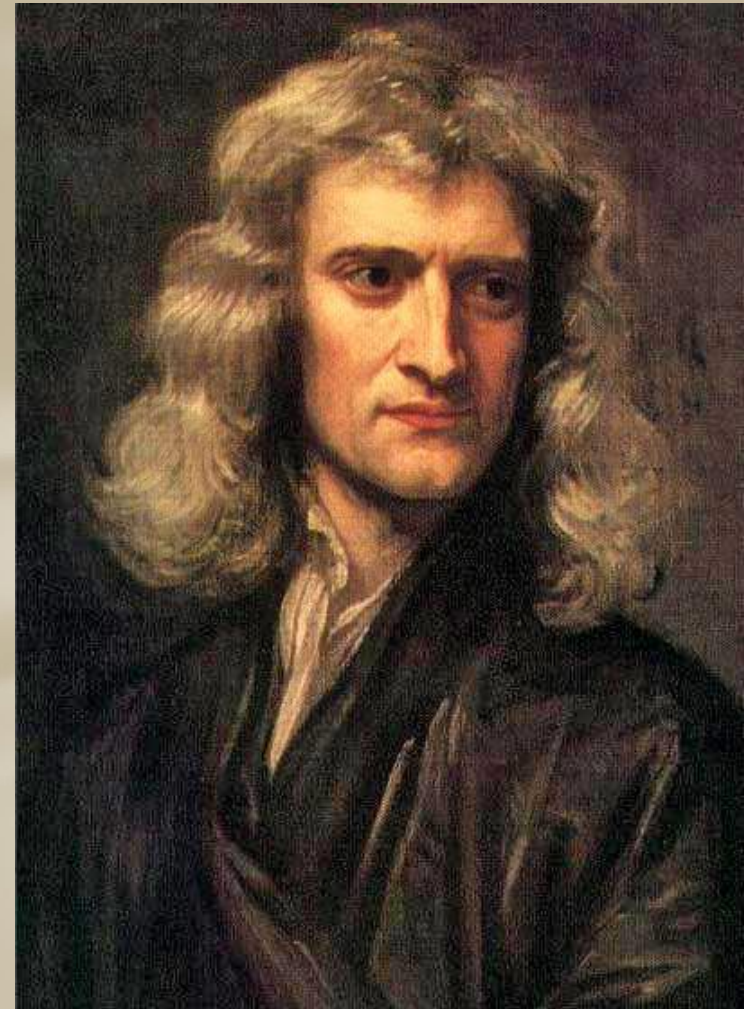
- Became Master of the Royal Mint in 1699
- First scientist to be knighted for his work (1708)
- Elected President of the Royal Society every year from 1703 to 1727
- Member of Parliament (1689-1690)



Newton in 1726

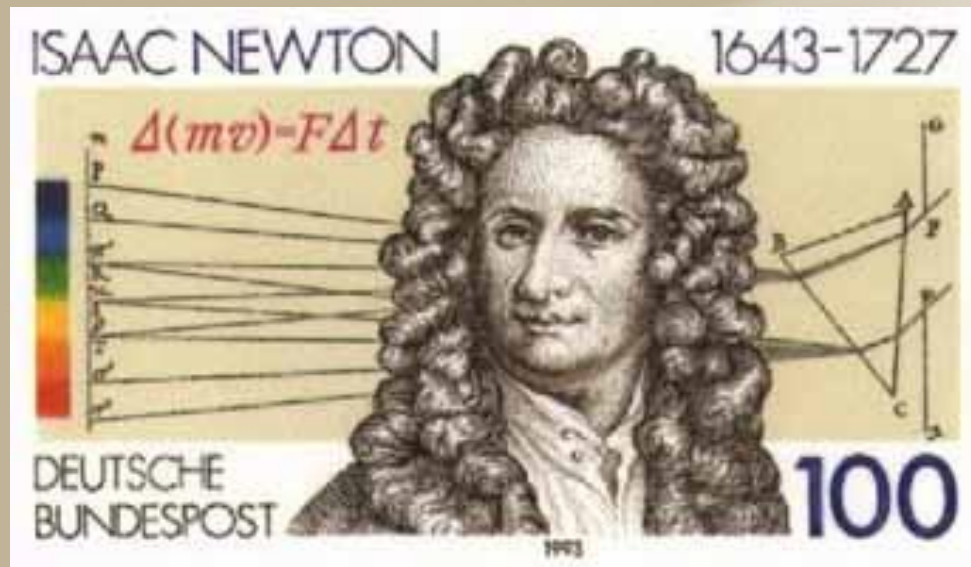
Some interesting facts

- Newton was known to have said that his work on formulating a theory of gravitation was inspired by watching an apple fall from a tree. A story well publicized to this very day.



Some interesting facts

- Newton did not leave behind descendants, as has never been married. All his spare time he devoted to science, and his ordinary, gray appearance made it inconspicuous for women.



Some interesting facts

Famous Isaac Newton quotes include:

- "Plato is my friend - Aristotle is my friend - but my greatest friend is truth."
- "I can calculate the motions of the heavenly bodies, but not the madness of people."



