

# Introduction to Physics

By Mr. Krall

# What is Physics?

**Physics** (fiz-ickz)

- the study of matter, energy, forces, and motion.

# Who studies physics?

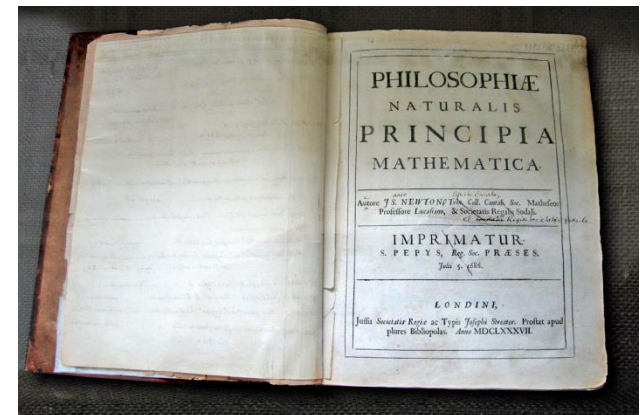
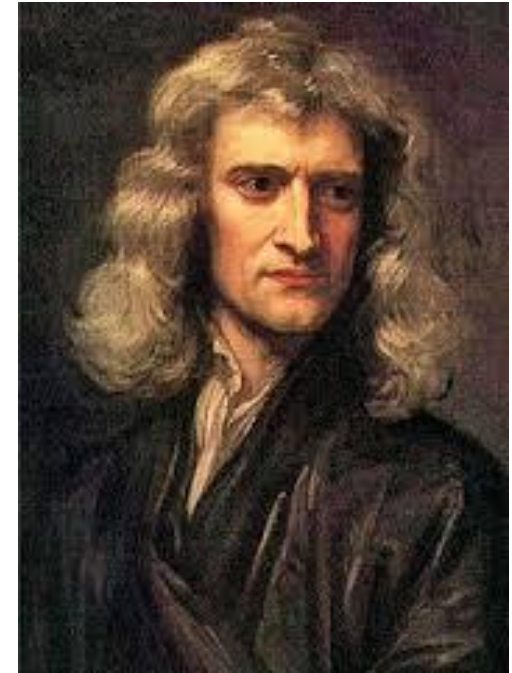
A **physicist** (fiz-ih-sist or fiz-uh-sist)

- is a person who studies Physics.

# Famous Physicists

## Isaac Newton

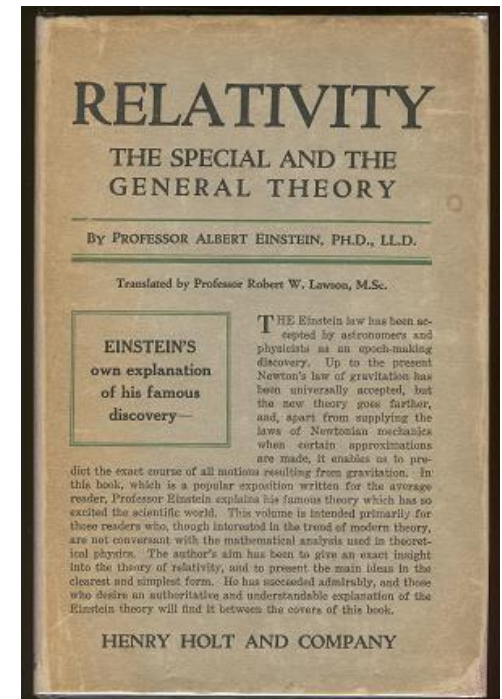
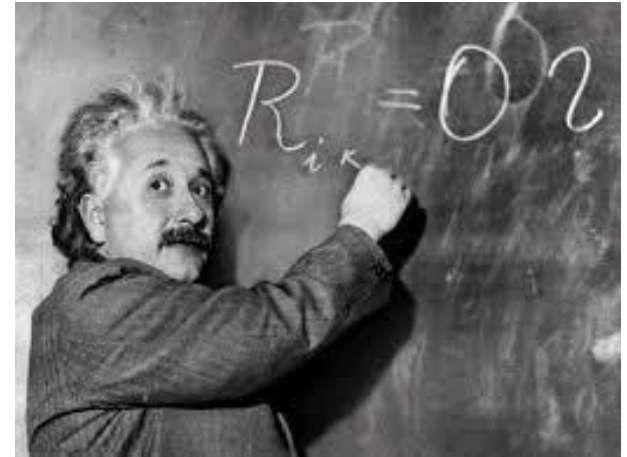
- ~350 years ago
- said to have discovered gravity when an apple fell on his head
- his ***3 Laws of Motion*** are still taught today as the basis of Physics



# Famous Physicists

## Albert Einstein

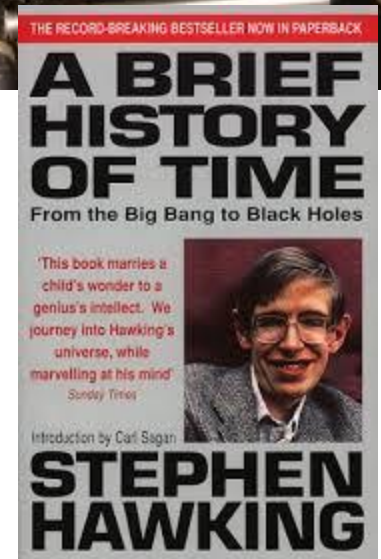
- ~75 years ago
- showed mathematically that matter can change into energy and back ( $E=mc^2$ )
- contributions in scientific understanding of light, time, energy, & gravity



# Famous Physicists

## Stephen Hawking

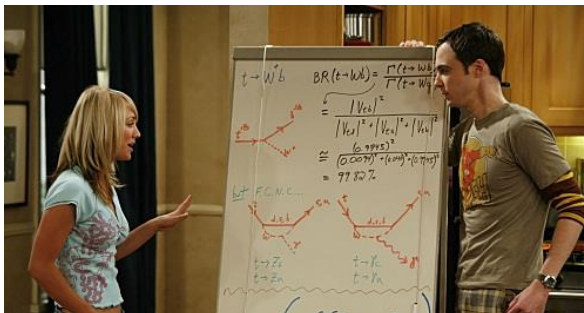
- ~still going
- suffers from a motor neuron disease that has left him almost completely paralyzed
- contributions to the fields of cosmology (origin of the universe) and quantum gravity (how gravity is caused)



# Famous Physicists

## Sheldon Cooper

- ~still going
- a character from television who is supposed to be a brilliant physicist
- contributions include:  
saying, “BAZINGA!” and  
cracking people up



real physicist

pretends to be a physicist





# Ideas that Make Physics Cool

## GRAVITY





# Ideas that Make Physics Cool

## *FRICTION*



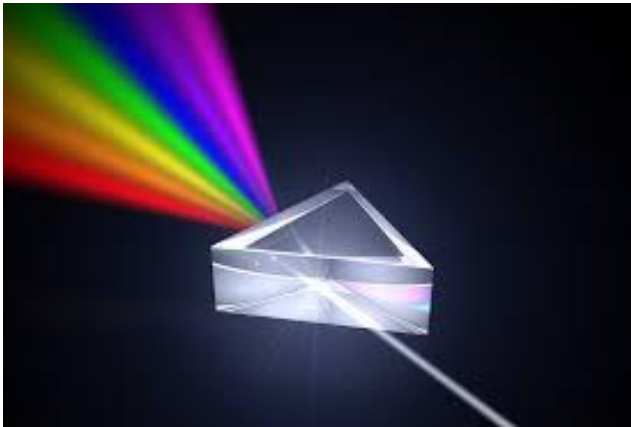
# Ideas that Make Physics Cool

## ***SPEED & ACCELERATION***



# Ideas that Make Physics Cool

ENERGY



# Ideas that Make Physics Cool

## MACHINES

