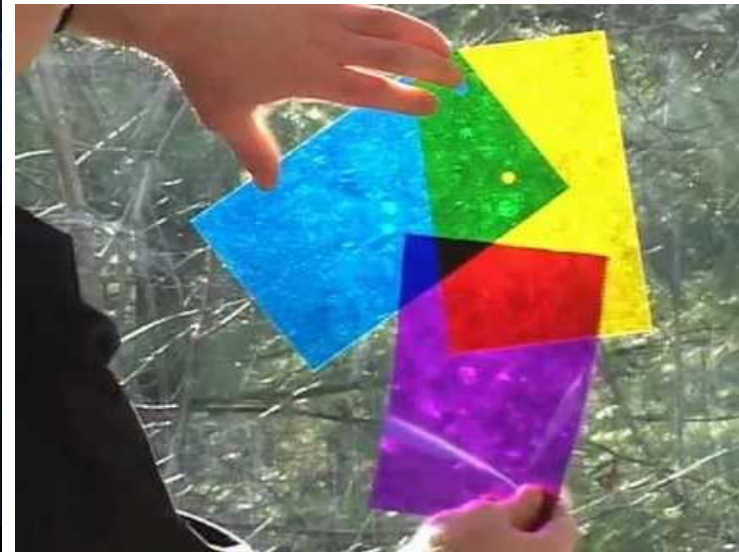




# What is Science?



Science is an **organized** way of **attempting to understand the natural world**, both structurally and operationally.

- a *way of knowing*
- a *process* of study of natural world
- involves observing, proposing explanations, and testing explanations
- is *evidence-based*



# The Three Whales...

- Hypothesis:

*possible* explanation of an experience or observation.

- Theory:

the *best possible* scientific explanation of an experience or observation in nature.

- Scientific Law:

*always true*, can not be circumvented or broken.



**...in the Ocean of Evidence!**

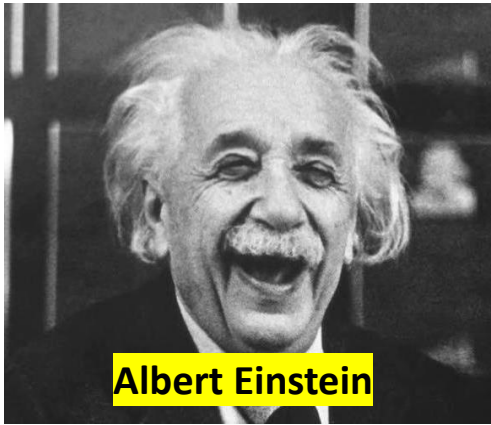
psychology geology criminology archaeology  
 botany zoology math  
 geography phd study earth ecology  
 history disease biology human computer  
**SCIENCE**  
 chemical mathematics  
 theory political chemistry  
 economics medical microbiology natural sociology  
 meteorology school teacher physiology geochemistry education  
 formulas anthropology



- from Latin *scientia*, meaning "knowledge"



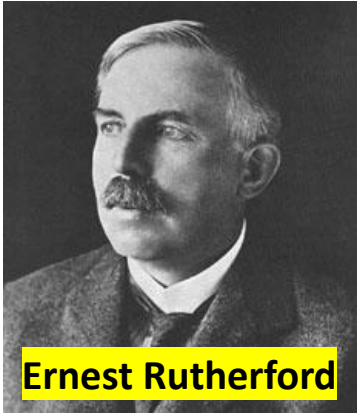
Antoine Lavoisier



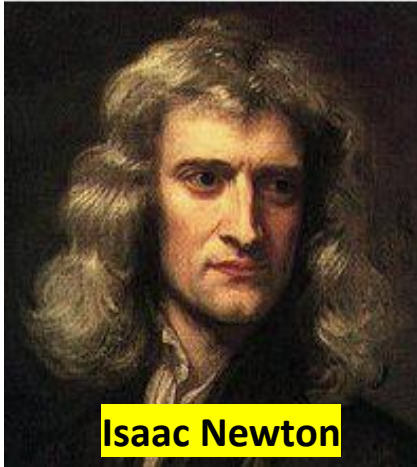
Albert Einstein



Benjamin Franklin



Ernest Rutherford



Isaac Newton



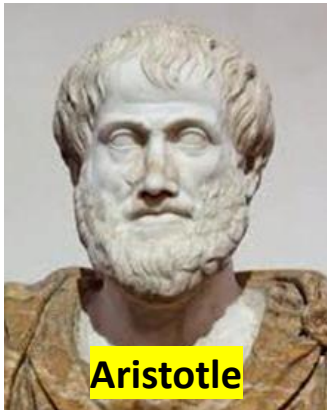
Galileo Galilei



Pierre and Marie Curie



Stephen Hawking



Aristotle

Your picture here?



Dmitri Mendeleev



Tim Berners Lee

# Our Topics

atom  
matter measurement  
observation  
light energy  
sound  
element wave  
time  
color molecule  
radioactivity plasma

# Physical Science

TONGUE



TOUCH

TASTE

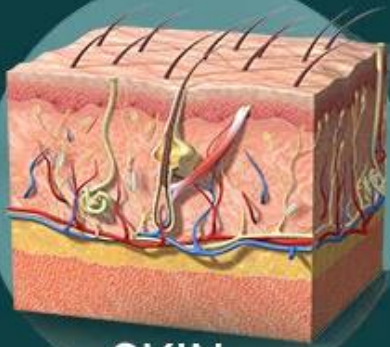
SMELL

SOUND

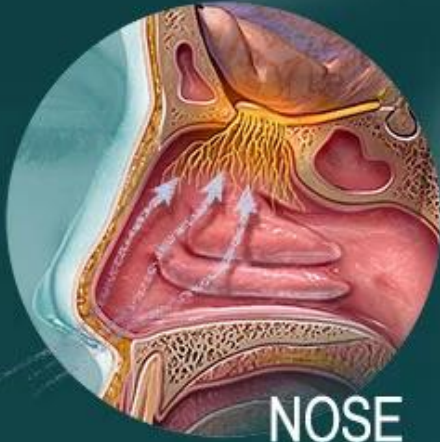
SIGHT



SKIN



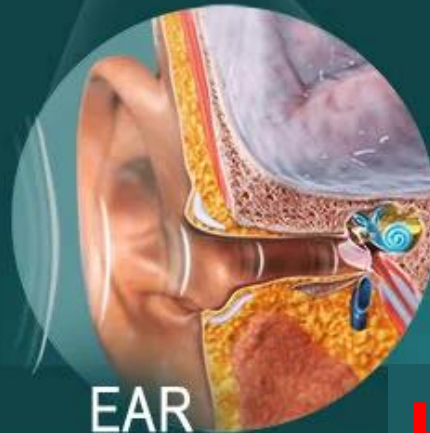
NOSE



EYE



EAR



# THE SENSES

How do they work?