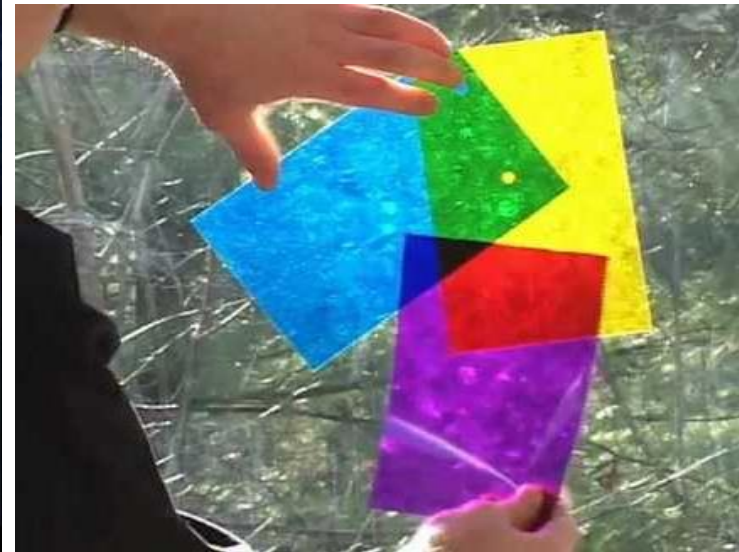




What is Science?



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

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



The Three Whales...

- Hypothesis:

possible explanation of an experience or observation.

- Theory:

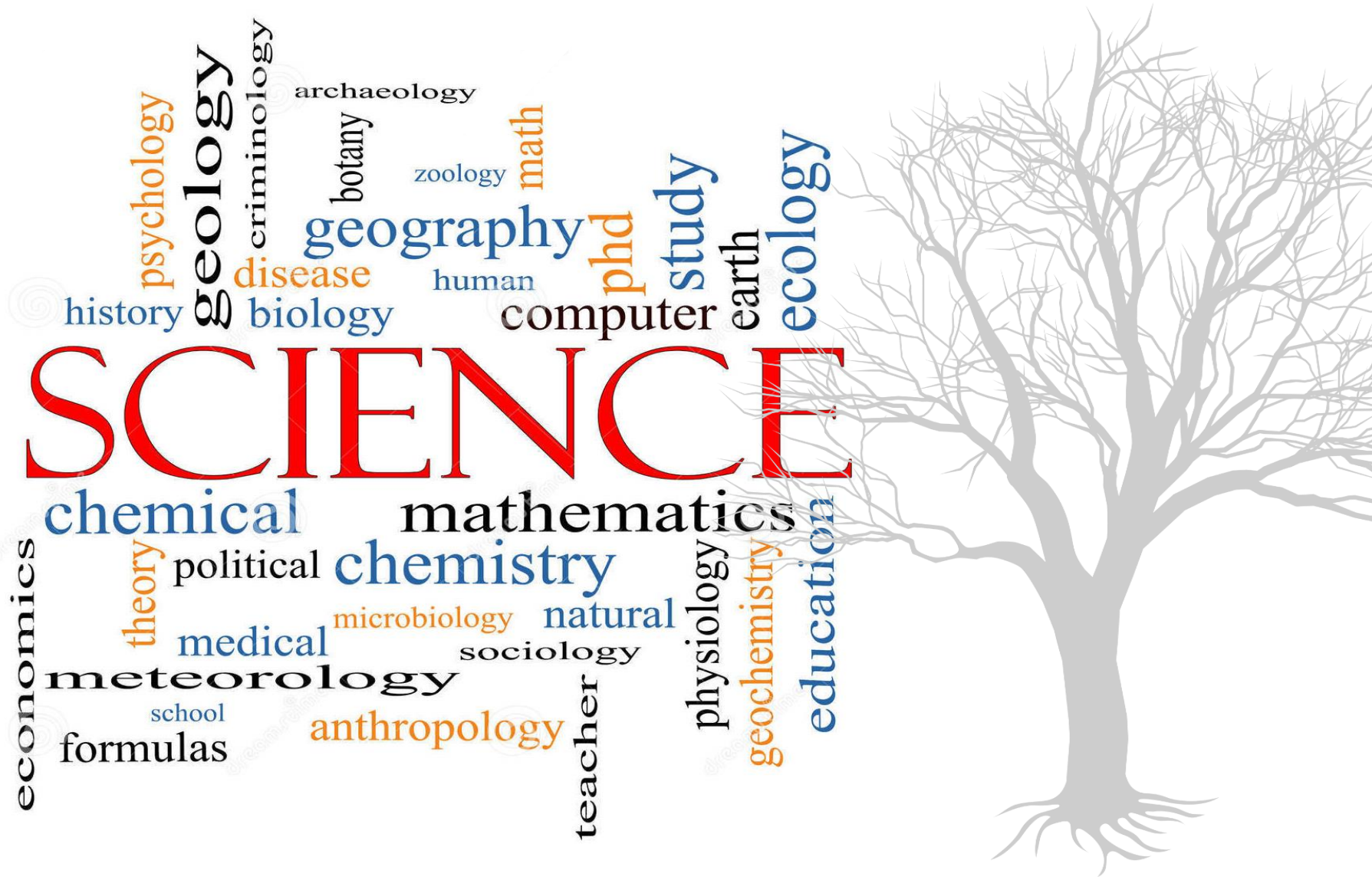
the *best possible* scientific explanation of an experience or observation in nature.

- Scientific Law:

always true, can not be circumvented or broken.



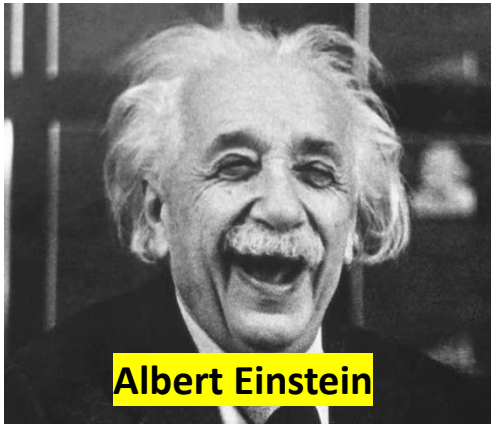
...in the Ocean of Evidence!



- from Latin *scientia*, meaning "knowledge"



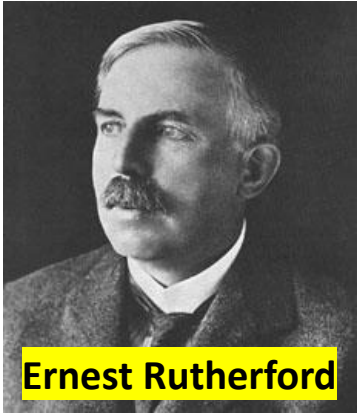
Antoine Lavoisier



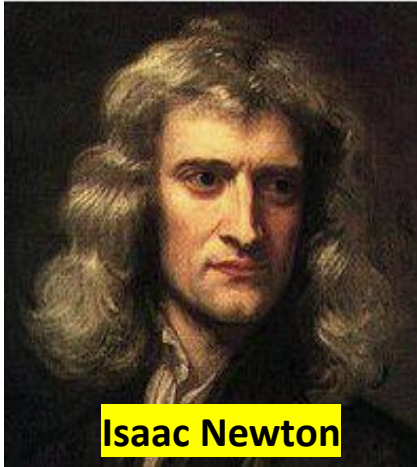
Albert Einstein



Benjamin Franklin



Ernest Rutherford



Isaac Newton



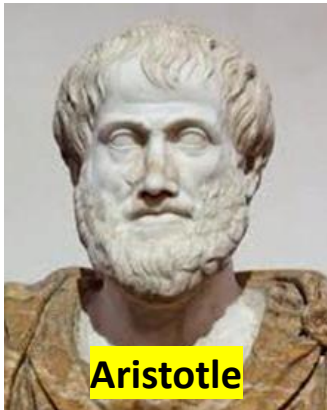
Galileo Galilei



Pierre and Marie Curie



Stephen Hawking



Aristotle

Your picture here?



Dmitri Mendeleev



Tim Berners-Lee

Our Topics

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

Physical Science

TONGUE



TOUCH

TASTE

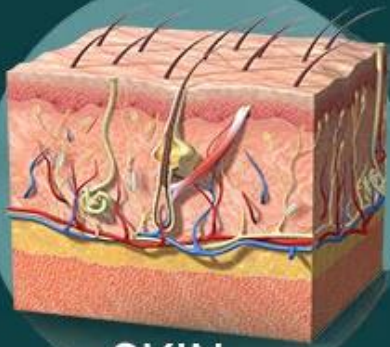
SMELL

SOUND

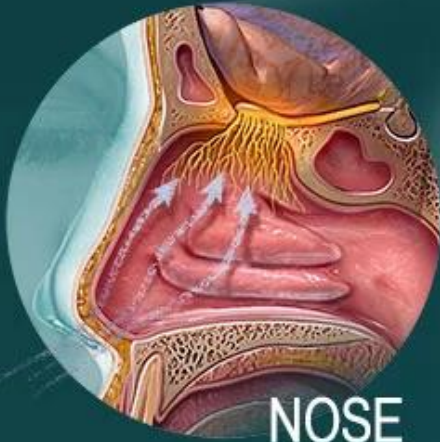
SIGHT



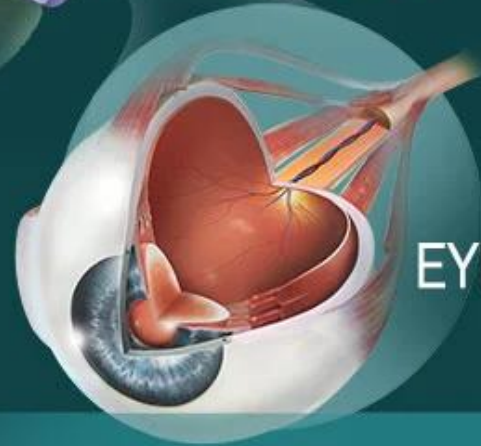
SKIN



NOSE



EYE



EAR



THE SENSES

How do they work?