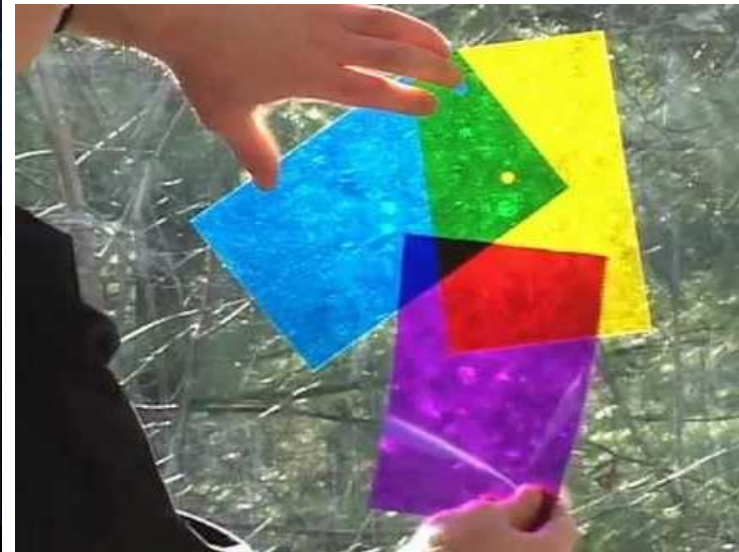




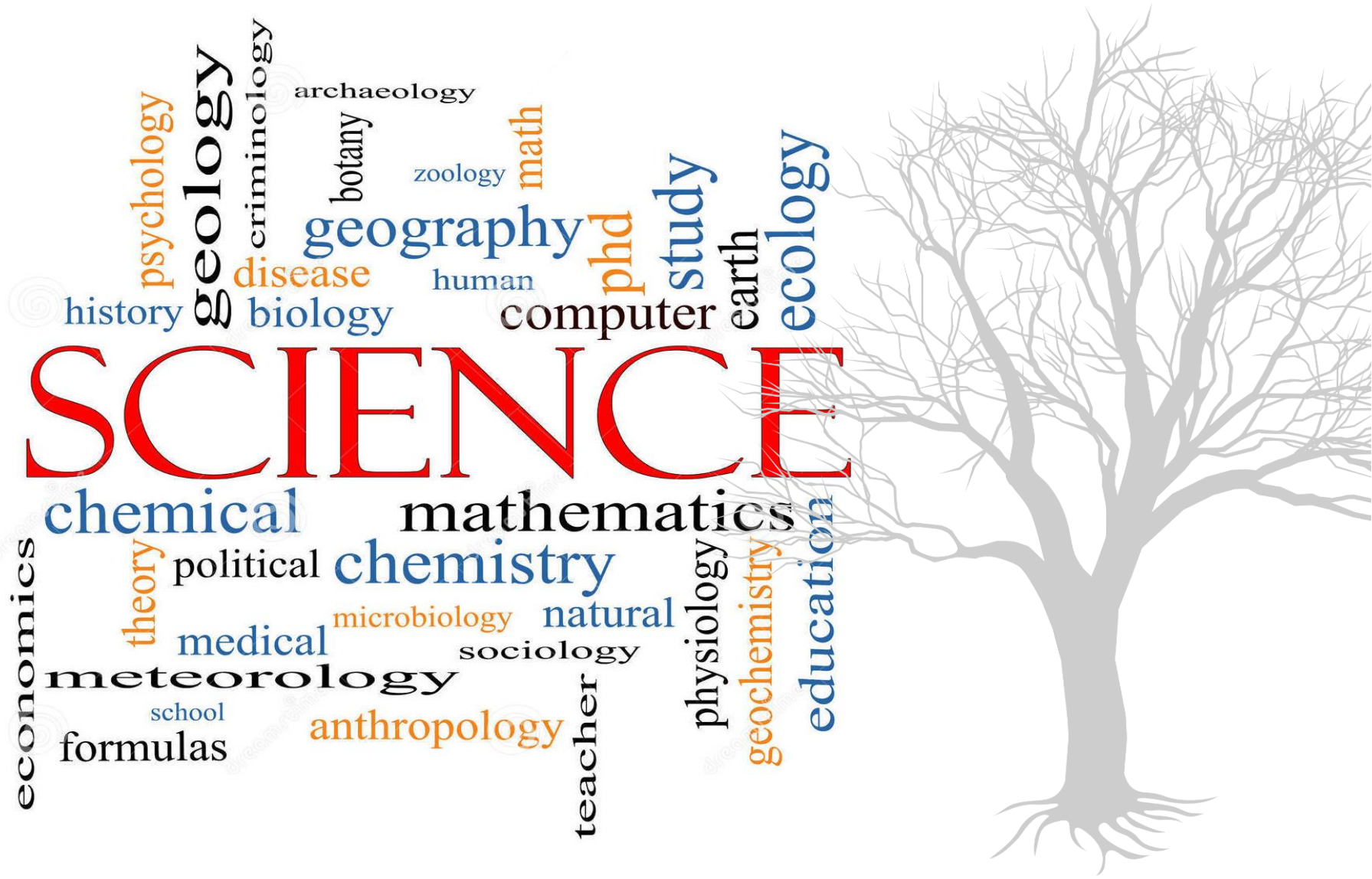
What is Science?



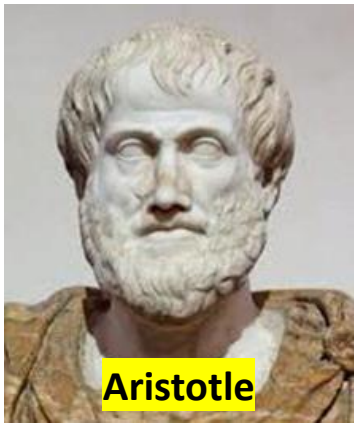
Science is an **organized** way of **attempting to understand the natural world**, both structurally and operationally.

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

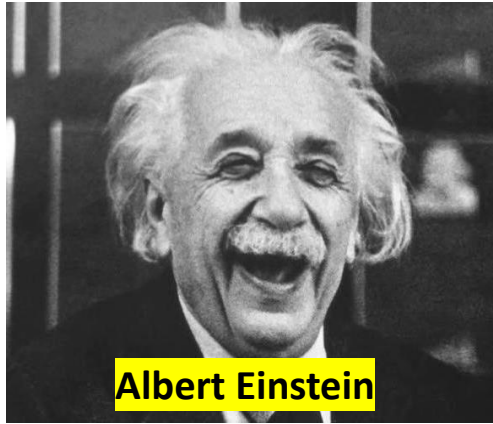




- from Latin *scientia*, meaning "knowledge"



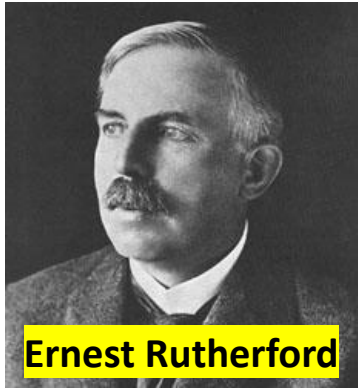
Aristotle



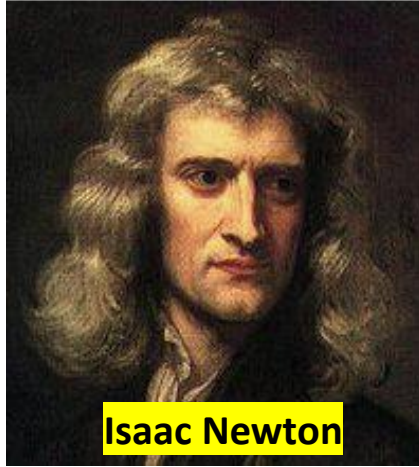
Albert Einstein



Benjamin Franklin



Ernest Rutherford



Isaac Newton



Galileo Galilei



Pierre and Marie Curie



Stephen Hawking



Antonie van Leeuwenhoek

Your picture here?



Dmitri Mendeleev

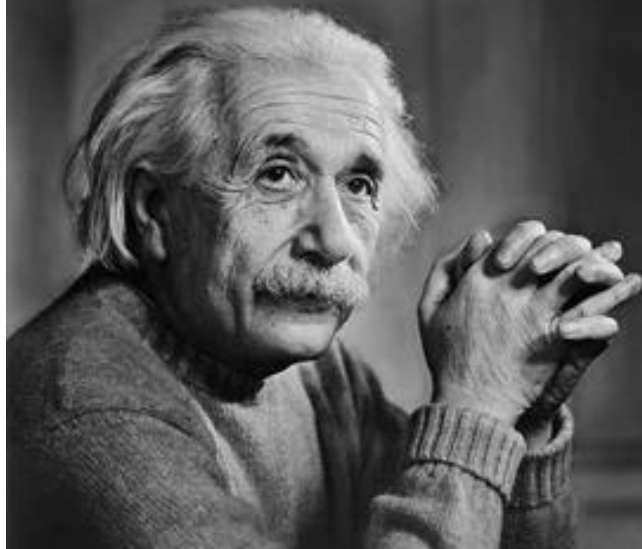


Tim Berners Lee

**“Education is not the learning of facts,
but the training of the mind to think”**

If you can't explain it **simply**, you
don't understand it well enough.

– Albert Einstein



**I have no
special
talents.**

***I am only
passionately
curious.***

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!

(some of) Our Topics

matter atom energy
force temperature cell
time measurement
element molecule life
plasma
observation data