

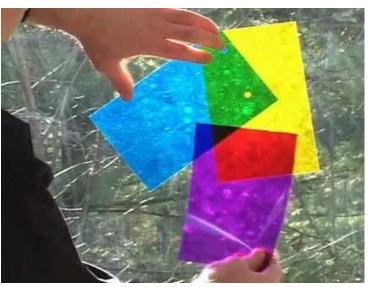




What is Science?







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...

• <u>Hypothesis</u>:

possible explanation of an experience or observation.

• Theory:

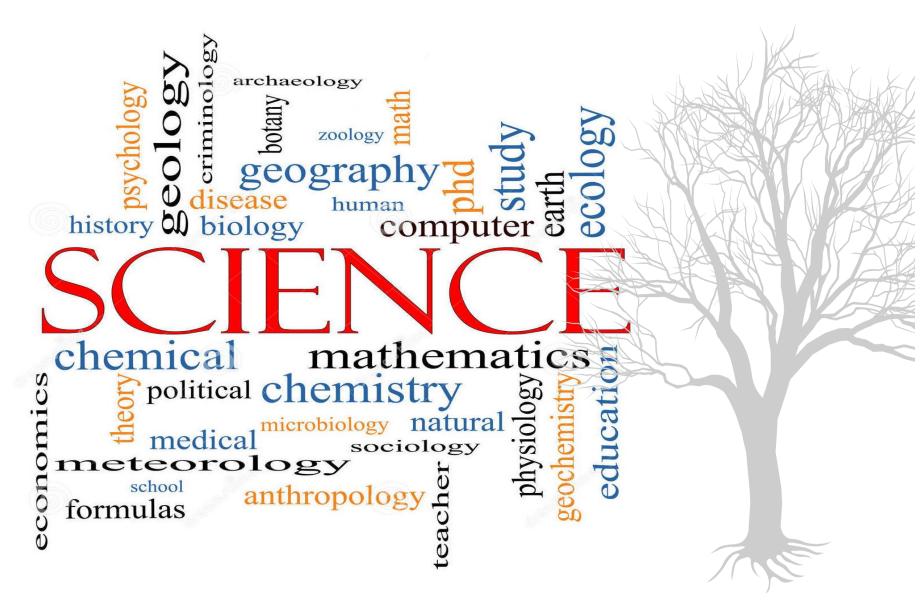


the *best possible* scientific explanation of an experience or observation in nature.

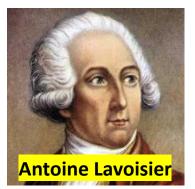
• <u>Scientific Law</u>:

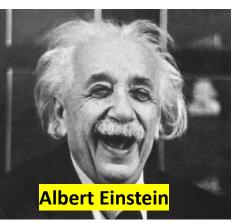
always true, can not be circumvented or broken.

... in the Ocean of Evidence!

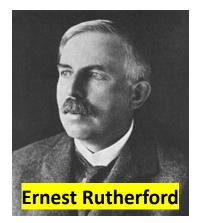


from Latin scientia, meaning "knowledge"



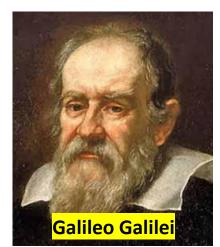




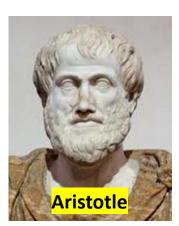


















Our Topics

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

Evidence is based on Observation

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- <u>Observation</u> is describing an object or event using your five senses (*what you see, hear, smell, taste, touch*) or measurement (*numbers*).
- Modern science employs sensors and detectors to make observations.
- Information gathered during an observation is called data (singular form *datum*).

