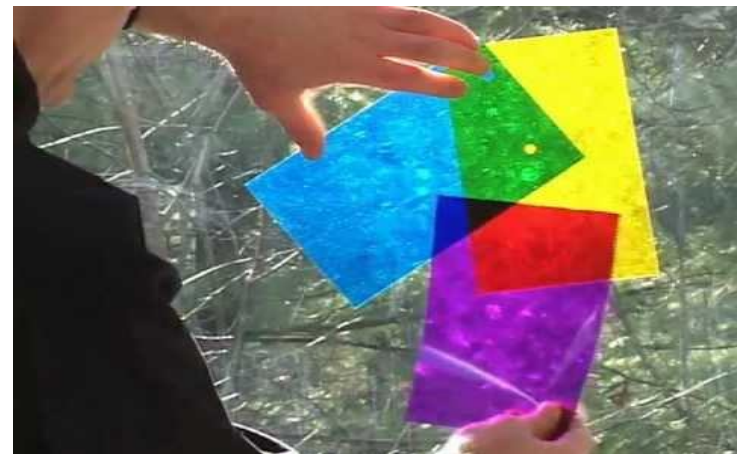
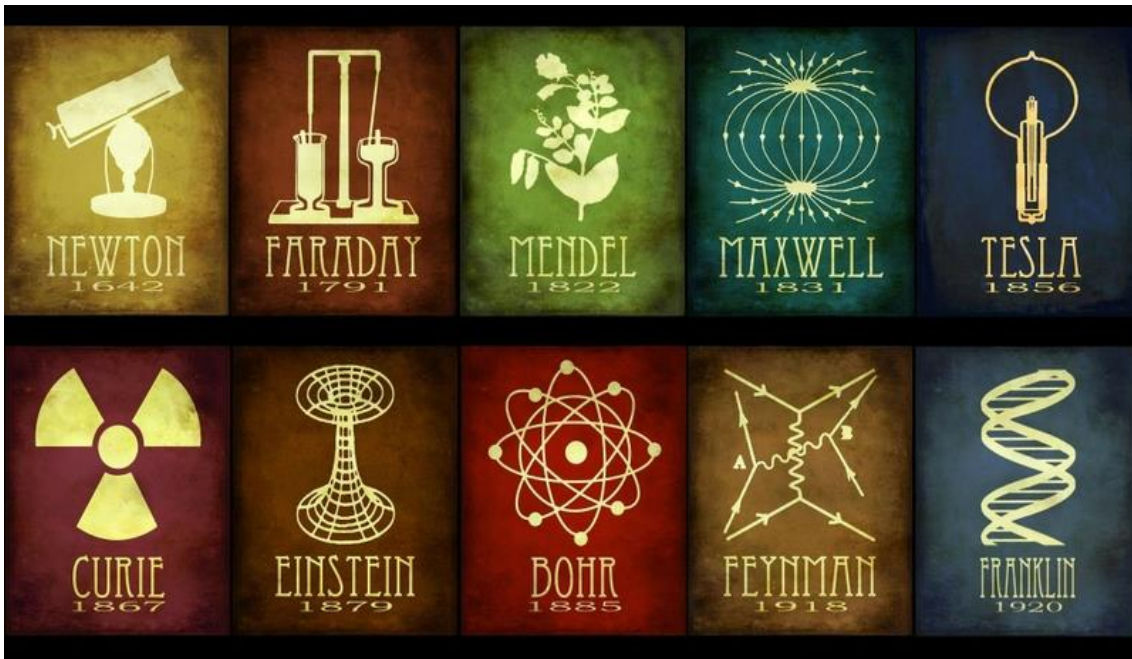
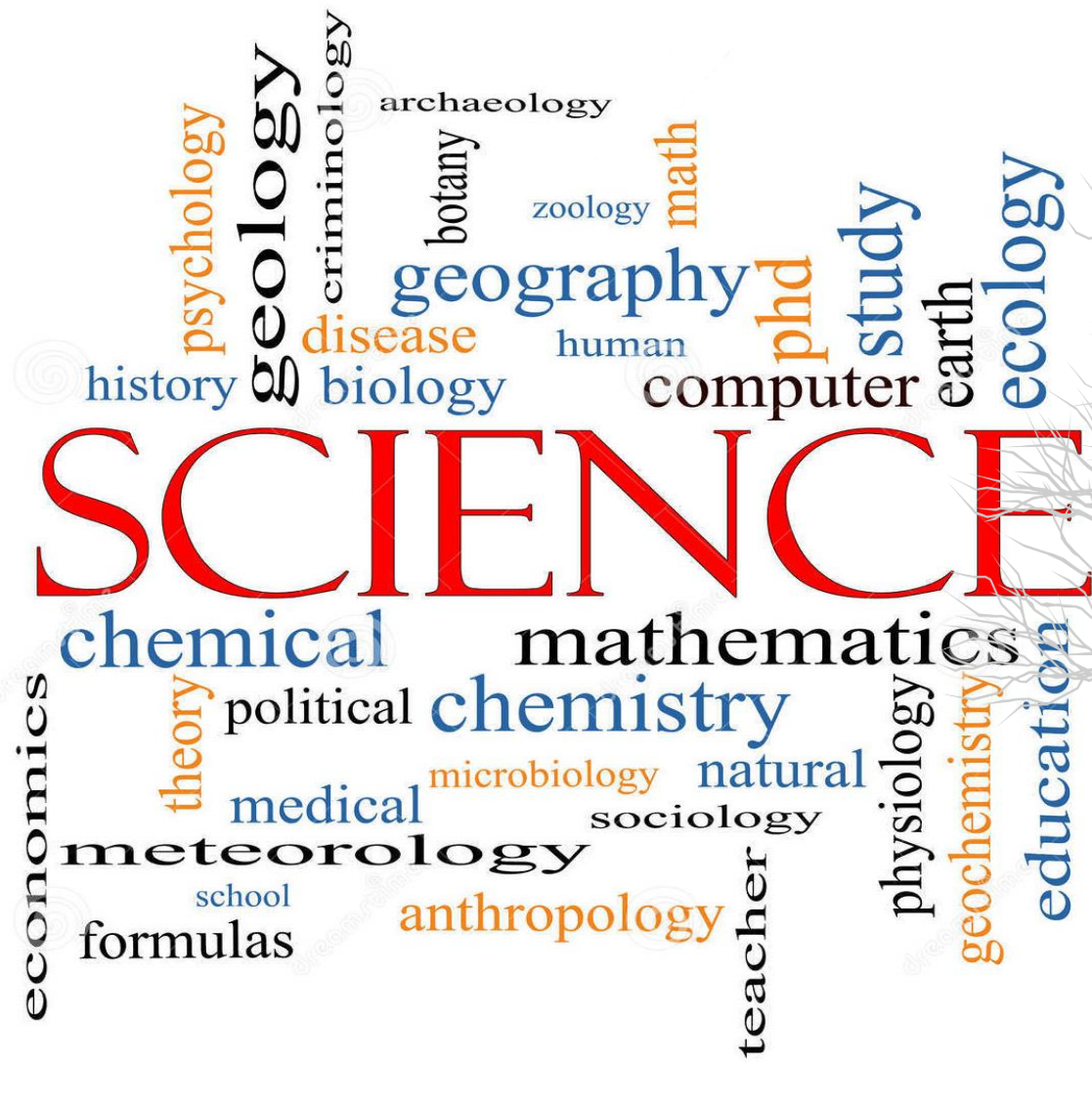


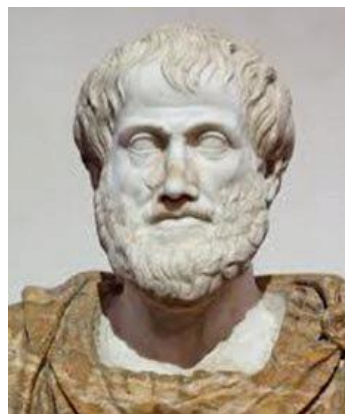
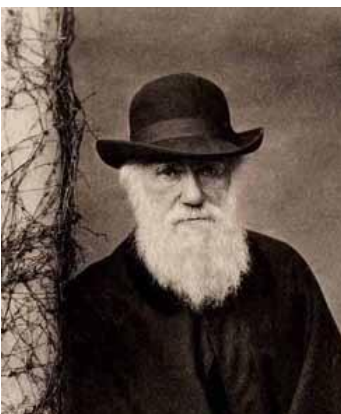
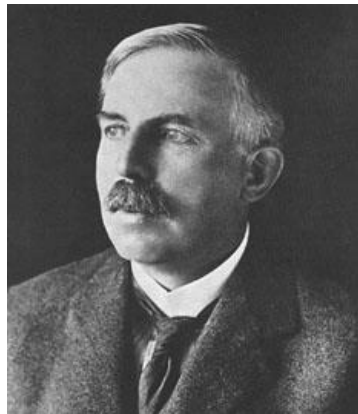
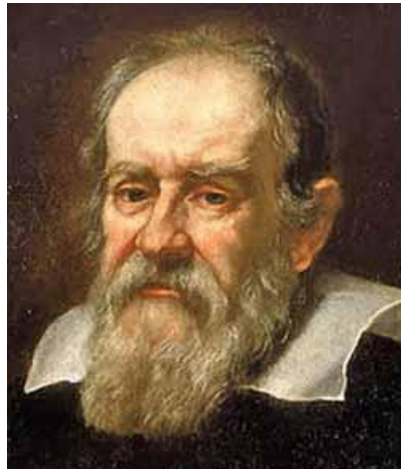
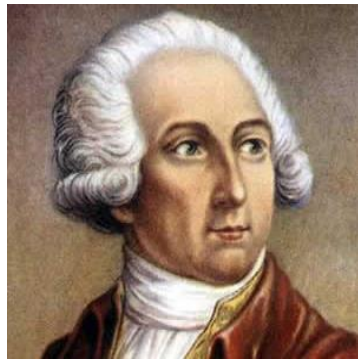
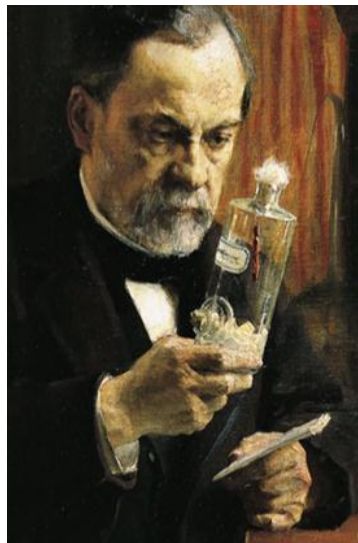


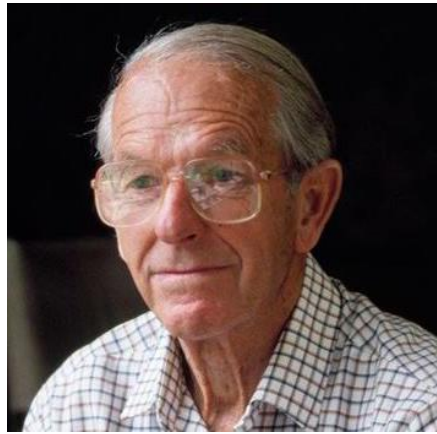
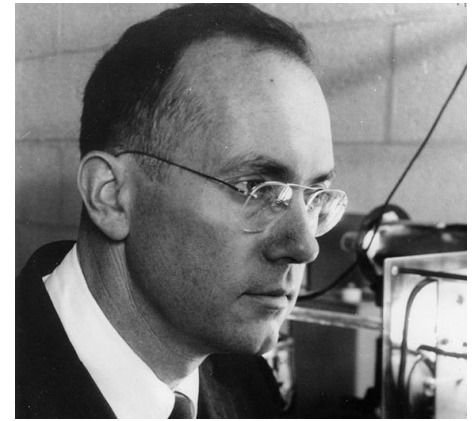
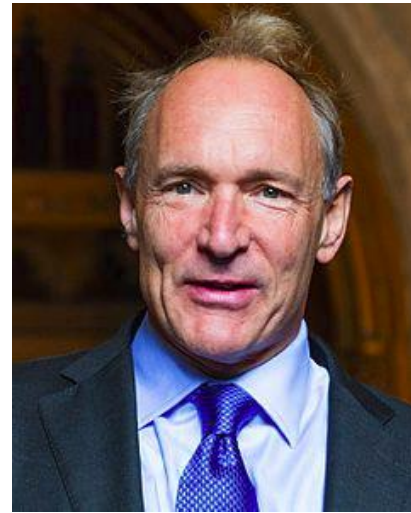
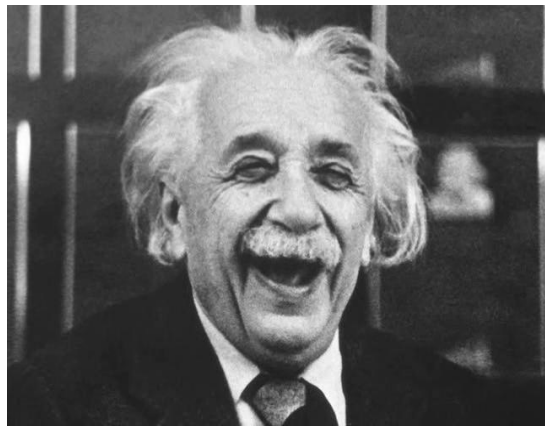
What is Science?





- from Latin *scientia*, meaning "knowledge"





Your
picture
here?



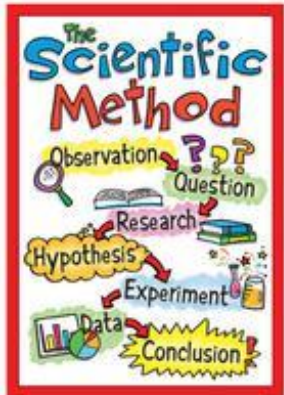
What is Science?

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*



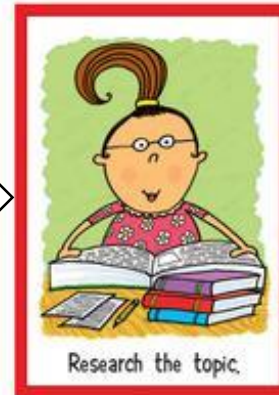
OBSERVE



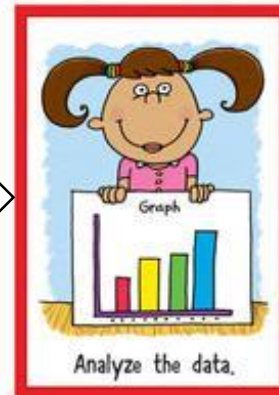
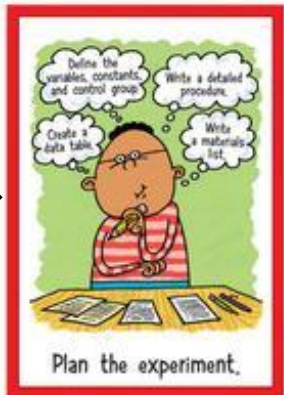
WONDER



RESEARCH



HYPOTHESIZE



PLAN

EXPERIMENT

DATA

ANALYSIS



CONCLUSION!

The Case of the Oviraptor

Egg-stealer or ...?

DATA: First fossil of this dinosaur ever discovered was found *huddling over a nest filled with dinosaur eggs*. Its powerful beak was strong enough to crack open an egg.



HYPOTHESIS: assumed to be an **egg-thief**. The paleontologists thought that the Oviraptor was stealing eggs when it died...

NAME GIVEN: **Oviraptor** (125-100 mya) means "egg thief".

The case of the oviraptor

...good parent!

Controlled **EXPERIMENT**: not possible!

MORE DATA: A recent study found an **oviraptor embryo** inside one of those eggs, so actually the oviraptor was by **its own nest!**

More expeditions have found **oviraptor skeletons on top of nests** — these devoted parents apparently died in sudden sandstorms while **guarding their nests!**



HYPOTHESIS DISPROVED but the **NAME STAYED...**

Our Topics

life spectrum
matter observation
light cell
data atom DNA
energy virus time
color measurement molecule
bacteria