

What is Science?

- study of the physical world
matter/energy- how related
- pursuit of understanding
(natural curiosity)
- a search for relationships

What is Science?

- how things work---what is its essence?
- why does it do what it does---what
makes it ---how can I make it ---
- man's assessment and organization
about what he knows---

What is Science?

- man's assessment
- relative vs. absolute
- observation vs. revelation
- matters of faith and the Scientific Method
- physical world vs. spiritual world

Heb. 11:3

By faith we understand that the universe was formed at God's command, so that what is seen was not made out of what was visible.

How does Science take place?

Sometimes by accident- they stumble upon it or find it by accident (Roemer)
Sometimes they plan it- it's intentional (Kepler)

Scientist Investigate

dig into/study
observe/watch/research

Scientist plan experiments

what could I do to show....?to see that?
they design and plan out procedures

Scientists observe

all actions/reactions
measure all results/characteristics
use instruments that allow them to see/measure more clearly

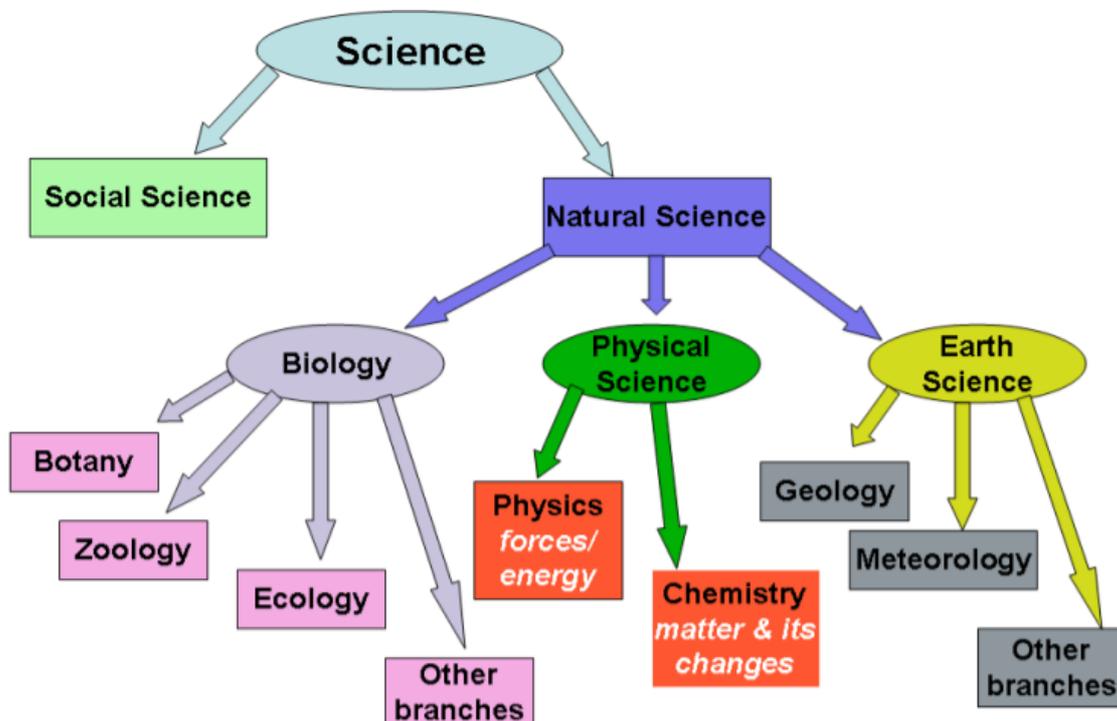
Scientist always test results

repeat experiment
limit and control all outside influences

Science has many branches

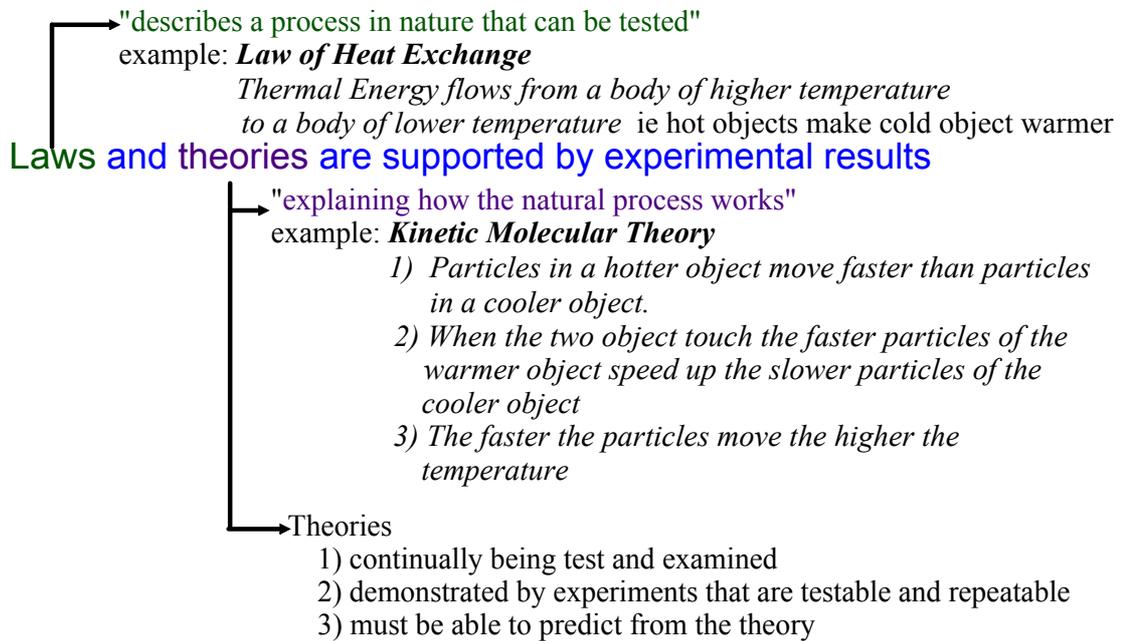
Science and technology work together

pure science- a search for knowledge and relationships
technology- apply what you learned and use it to do something
or make something easier



Scientific Laws and Theories

know the language of science!



Mathematics can describe physical events

qualitative: statement/word that describe an event

quantitative: numbers/equations that describe an event

how fast something goes?

- pretty fast vs. it went 50 cm in 5 seconds.....10 cm/s

Theories and Laws are always being tested

Whenever new information is observed that doesn't fit the present explanation
the theory changes

We're always looking for a better explanation

Models can represent physical evidence

representation of an object or event you're observing

usually used if the object or event is difficult or maybe even impossible to see or observe because of limits of technology, size, or complexity

