

## The Nature of Science Section 1.1

### The Goal of Science

- To understand the world around us.
- Scientists use facts to propose explanations for events they observe

### Theory vs. Law

- Theory – scientific explanation of events that have been tested by repeated observations (some impossible to test ex. continents moving)
- Scientific Law – states a repeated observation about nature.  
- a theory that is accepted as true  
(ex. put warm object in cool place)

### Branches of Science

- Three Branches of Science
  - Biology
  - Physical Science
  - EARTH Science

### Life Sciences

- Zoology
- Botany
- Ecology
- other: anatomy, microbiology...

\* Pure Science vs  
Technology

Science = Knowledge  
Technology = applying Knowledge

### Earth Sciences

- GEOLOGY
- Metecrology
- astronomy
- Oceanography } other
- \_\_\_\_\_

\* Quantitative vs  
Qualitative

QUALITATIVE = describe w/ words

QUANTITATIVE = describe w/ numbers

### Physical Sciences

- Physics
- Chemistry

