

## The Nature of Science

### Section 1.1

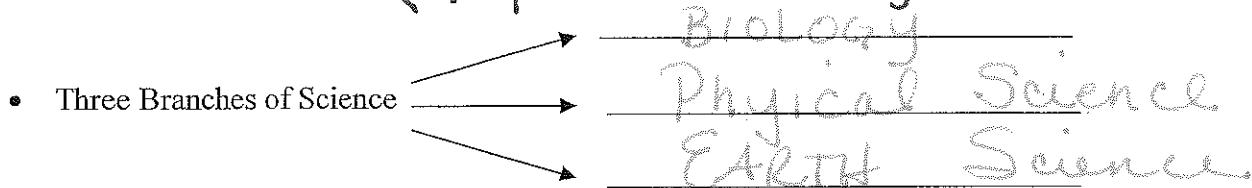
#### The Goal of Science

- 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



#### Life Sciences

- Zoology
  - Botany
  - Ecology
  - other: anatomy, microbiology ...
- \* Pure Science vs Technology  
Science = Knowledge  
Technology = applying knowledge

#### Earth Sciences

- GEOLOGY
- Meteorology
- astronomy
- Oceanography
- Other

#### \* QUANTITATIVE VS QUALITATIVE

QUALITATIVE = describe w/ words  
QUANTITATIVE = describe w/ numbers

#### Physical Sciences

- Physics
- Chemistry

