WHAT IS ECOLOGY ?

Sientific study of the relationship between organism and their environment.

Environment includes not only physical but also the biological conditions under which an organism live.

Relationship includes interaction

The major unit of ecology is the ecosystem

- A system is a collection related parts that function as a unit
- "eco" part of the word relates to environment
 The physical component of forest consist of atmosphere, climate, soil and water.
- The many different plants and animals that inhabit the forest make up the biotic component.

Ecosystem componens form a hierarchy

- Population
- Community
- ecosystem

Ecology has strong ties to other sciences

- Biochemistry
- Genetics
- Hydorology
- Physiology
- Behavior
- geology

Ecology use scientific methods

- To test hypohesis :
- Field study
- Field experiment
- Laboratory experiment

Experiments can lead to predictions

Scientist use the understanding derived from observation and experiments to make models.

Model use the understanding gained from the data to predict what will happen in some other place and time.