

Human Biology

An Introduction

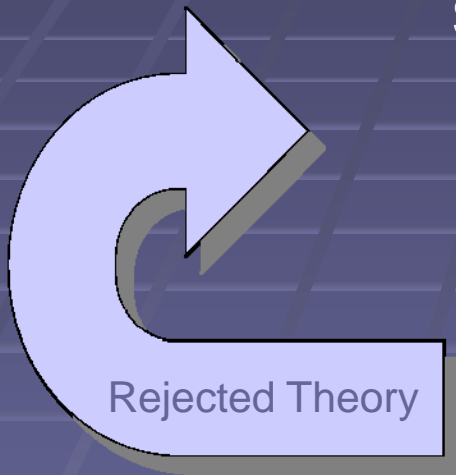
What is Science?

- A way of studying the world through observation and investigation.
- Science affects us in many ways.
 - Medical/Health Care
 - Environment
 - Technology

- Science is a search for knowledge through observation, investigation and questions.
- Scientists have methodically worked to solve problems.
 - 1897 Ronald Ross – malaria
 - 1668 Francesco Redi – spontaneous generation
 - 1864 Louis Pasteur – microorganisms on dust in air
 - 1753 Carolus Linnaeus – Classification system

All scientists followed some kind of method to guide their work.

- The Scientific Method – systematic study of a question or problem
 - Question – Observation
 - Hypothesis – suggested explanation to question
 - Prediction & experimentation – test the hypothesis
 - Form a theory
 - Test a theory



Themes in Biology

- Cell Structure & Function
- Stability & Homeostasis
- Heredity
- Evolution
- Interdependence
- Matter, energy & organization

The Metric System

Measurements used in Science

Based on units of 10

- **Distance – meter**
 - Kilogram = 1000 meters
 - Millimeter = 1/1000 of a meter
 - Centimeter = 1/100 of a meter
- **Weight – gram**
 - Kilogram – 1000 grams
 - Milligram = 1/1000 of a gram
- **Volume – liter**
 - Kiloliter = 1000 liters
 - Milliliter = 1/1000 liter

