

Biology
Scientific Method
2012 - 2013
#2

- I. Scientific Method = Process used by scientists to solve problems
 - A. **Observations** = use senses to identify problems
 - B. **Questions** = used to clarify the problem
 - C. **Hypothesis** = “educated guess” that explains the observations
 - D. **Experiment** = used to test the hypothesis
 - 1. **control** = group used as a “normal comparison”
 - 2. **experimental group** = group that receives the “special treatment”
 - **independent variable** = the “special treatment”
 - **dependent variable** = what is being measured (height, weight, etc.)
 - E. **Repetition** = must be able to duplicated the results of the experiment
 - F. **Theory** = a hypothesis that has been supported by repeated experiments