Unit 1 Lesson 1 Outline

1. What is a scientific investigation?
   1. A way of answering a scientific question
   2. Controlled experiment: has two groups- a control group and an experimental group. The independent variable is changed in the experimental group and unchanged in the control group.
2. How do scientists communicate?
   1. Publish reports in journals (magazines), books, and on the Internet to show other scientists their work, give presentations
   2. Scientific Explanations
      1. Must be based on information gathered in the investigation, NOT on opinion
      2. Reliable (trust) and accurate (correct)
      3. Consistent results (same results over and over again)
   3. Scientific Theories VS Scientific Laws
      1. Theories explain why something happens, Laws do NOT explain why something happens
3. How is Science Applied?
   1. Technology- computers, satellites, cell phones, etc
4. What are the branches of science?
   1. Physical, life, earth