

## Lesson 1

Scientific Inquiry, Force and Motion (Lessons 1-4) Note-Taking Guide Describe the main methods of science.

- Distinguish between controlled experiments, observational studies, field studies, and laboratory studies. Include an example of each:

**controlled experiment** is when they want to find out how changing one thing causes something else to change. example, suppose you want to know how quickly different soil types will absorb water. You would get samples of different types of soil to compare. You would then add the same amount of water to each sample and measure how long it takes the water to be absorbed. You would use the same amount of soil and water for each test to be sure the only difference between your tests was the soil type.

**observational studies:** experiments in which systems are observed as they appear in nature, and researchers do not attempt to change them. Examples of questions that cannot be addressed by controlled experiments include the following: What causes the sun to shine? Do volcanoes cause global warming? How do mountain ranges form?

**field studies,** observational studies done outside a laboratory setting -example of an observational study was the discovery of Jupiter's moons by Galileo Galilei in 1608, shortly after the design of the first telescope.

**laboratory studies** experiment that take place in a highly controlled, artificial setting. One example is core sampling, where sections of rock may be cored to study the physical and chemical nature of the rock.

- Essential Vocabulary (Note: Define all Essential Vocabulary in your own words, including examples to illustrate the concepts).
  - Independent variable: It is what you change on purpose, is the one that is being changed by the experimenter.
  - Dependent variable: is the one that changes because of the independent variable.
  - Control variable: that scientists do not wish to study must either be eliminated or kept constant
- Describe how different models (physical, conceptual, mathematical, computational) can be used in scientific investigations. Include examples.

**physical model:** a model that represents a real object or a phenomenon, usually on a smaller scale example, Earth, the moon, and the sun as small spheres on movable platforms. Example, is a wind tunnel, shown in the following figure. A wind tunnel is a scaled-down physical model used for studying the effects of air moving over or around solid objects.

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