

Unit 1 The Nature of Science
Lesson 2 Scientific Investigations

I. What are Some Types of Scientific Investigations?

1. The two basic types of scientific investigations are _____ and field _____.

2. Experiments

a. An _____ is an organized _____ to study something under controlled conditions.

b. Experiments can be done in the _____ or in the field.

A. Observations and Models

1. Scientists can also use _____ to gather information without carrying out experiments.

2. Observations is the process of _____ information by use the _____.

3. Another type of investigation is the building of _____.

4. _____ are representations of an object or system and are used to study things that are very _____, large or too _____ to study directly.

II. What are Some Parts of Scientific Investigations?

1. No matter what or where scientists study they have these basic _____ in common.

A. Hypothesis

1. A hypothesis is a _____ idea or explanation that can be used to design and carry out an _____.

2. A hypothesis must be _____ constructed so it can be _____ in a meaningful way.

B. Prediction

1. A prediction (often made based from the hypothesis) is a statement about a _____ relationship that will occur under certain conditions.

C. Independent Variables

1. Variables are factors that can _____ in a scientific investigation.

a. An _____ variable is the factor that is _____ adjusted in an investigation.

2. Most experiments only have _____ independent variable. Other variables are kept _____ or constant, so they do not affect the results.

D. Dependent Variables

1. A dependent variable is the factor that _____ AS A RESULT of adjusting the _____ variable.

III. What are Some Scientific Methods?

Florida Science Fusion Unit 1 Test

Lauren Gardner



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Nuclear Science Abstracts ,1971 **Safety Science Abstracts** ,1973 **INIS Atomindex** ,1986 Nuclear Science Information of Japan. Oral Presentation ,1994 *Proceedings - Soil and Crop Science Society of Florida* Soil and Crop Science Society of Florida, **Energy Research Abstracts** ,1991 **Refrigerating Engineering** ,1926 Vols 1 17 include Proceedings of the 10th 24th 1914 28 annual meeting of the society Directory of Published Proceedings ,1984 Engineering Journal ,1927 *Research Centers Directory* ,2005 **Resources in Education** ,1977 Government Reports Announcements & Index ,1995 **Government Reports Annual Index** ,1994 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z Current Programs ,1977 *International Research Centers Directory* ,2009 *English Mechanic and Mirror of Science and Art* ,1884 Energy: A Continuing Bibliography with Indexes, Issue 32 ,1982 **The Journal of the Engineering Institute of Canada** Engineering Institute of Canada,1927

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