

Chapter 1 The Nature of Science

Section 1 The Methods of Science

A. Science studies natural patterns.

1. Science is classified into three main categories: life science,

Earth science, and physical science; sometimes a scientific study will overlap the categories.

2. Science explains the natural world; explanations can change over time.

3. Scientists investigate nature by observation, experimentation, or modeling.

B. Scientific method—organized set of investigation procedures

1. State a problem.

2. Gather information.

3. Form a **hypothesis** or educated guess based on knowledge and observation.

4. An **experiment with variables** is a common way to test a hypothesis.

- a. A **dependent variable** changes value as other variables change.

- b. An **independent variable** is changed to determine how it will affect the dependent variable.

- c. A variable that does not change when other variables change is a **constant**.

- d. A **control** is the standard to which test results can be compared.

5. Analyze data from an experiment or investigation.

6. Form a conclusion based on the data.

7. Reduce **bias** by keeping accurate records, using measurable data, and repeating the experiment.

C. Models represent ideas, events, or objects and can be physical or computerized.

D. A theory is an explanation based on many observations and investigations; a **scientific law** is a statement about something that always seems to be true.

E. Science deals with the natural world; questions of value or emotion cannot be answered.

F. Technology—applied science helping people

Section 2 Standards of Measurement

A. Standard—exact quantity that people agree to use for comparison

B. Measurements must have a number and a unit.

1. **SI**—an improved version of the metric system used and understood by scientists worldwide

2. SI system is based on multiples of 10 and uses prefixes to indicate a specific multiple.

C. Length is measured using a unit appropriate for the distance between two points.

D. Volume—the amount of space an object occupies

E. Mass—measure of matter in an object

1. **Density**—mass per unit volume of a material

2. A unit obtained by combining different SI units is called a **derived unit**.

F. Time is the interval between two events; temperature is measured using a thermometer.

Section 3 Communicating with Graphs

A. Graph—visual display of information or data that is used to detect patterns

B. A line graph shows a relationship where the dependent variable changes due to a change in the independent variable.

1. The scale should make the graph readable.

2. The *x*-axis should always be used for the independent variable.

3. Units of measurement must be consistent.

C. Bar graphs compare information collected by counting.

D. Circle graphs show how a whole is broken into parts.

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