

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.

Nature Of Science Review Guide Answers

Padhraic Smyth



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Table of Contents Nature Of Science Review Guide Answers

1. Understanding the eBook Nature Of Science Review Guide Answers
 - The Rise of Digital Reading Nature Of Science Review Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Nature Of Science Review Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Nature Of Science Review Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nature Of Science Review Guide Answers
 - Personalized Recommendations
 - Nature Of Science Review Guide Answers User Reviews and Ratings

- Nature Of Science Review Guide Answers and Bestseller Lists
- 5. Accessing Nature Of Science Review Guide Answers Free and Paid eBooks
 - Nature Of Science Review Guide Answers Public Domain eBooks
 - Nature Of Science Review Guide Answers eBook Subscription Services
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nature Of Science Review Guide Answers
 - Highlighting and Note-Taking Nature Of Science Review Guide Answers
 - Interactive Elements Nature Of Science Review Guide Answers
- 8. Staying Engaged with Nature Of Science Review Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nature Of Science Review Guide Answers
- 9. Balancing eBooks and Physical Books Nature Of Science Review Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nature Of Science Review Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nature Of Science Review Guide Answers
 - Setting Reading Goals Nature Of Science Review Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nature Of Science Review Guide Answers
 - Fact-Checking eBook Content of Nature Of Science Review Guide Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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