

Chapter 1 The Science of Biology**Summary****1-1 What Is Science?**

Science is an organized way of using evidence to learn about the natural world. Scientific thinking usually begins with observation, which is the process of gathering information about events or processes in a careful, orderly way. The information gathered from observations is called data. Quantitative data are expressed as numbers, obtained by counting or measuring. Qualitative data are descriptive and involve characteristics that can't usually be counted. Scientists use data to make inferences. An inference is a logical interpretation based on prior knowledge or experience.

After making first observations, a researcher will propose one or more hypotheses. A hypothesis is a proposed scientific explanation for a set of observations. Scientists generate hypotheses using prior knowledge, logical inference, and informed, creative imagination. Scientific hypotheses must be proposed in a way that enables them to be tested. Hypotheses are tested by performing controlled experiments. The conclusions researchers draw from experiments or data must be valid. To be valid, a conclusion must be based on logical interpretation of reliable data.

1-2 How Scientists Work

Conducting a scientific investigation involves a series of steps. The first step is asking a question. The second step involves forming a hypothesis. The third step in conducting a scientific investigation is setting up a controlled experiment. A hypothesis should be tested by an experiment in which only one variable is changed at a time. All other variables should be kept unchanged. This type of experiment is called a controlled experiment. The variable that is deliberately changed is called the manipulated variable. The variable that is observed and that changes in response

to the manipulated variable is called the responding variable.

The fourth step in conducting a scientific investigation is recording and analyzing results. The fifth step is drawing a conclusion. A key assumption in science is that experimental results can be reproduced.

As evidence builds up, a particular hypothesis may become so well supported that scientists consider it a theory. In science, a theory is a well-tested explanation that unifies a broad range of observations.

1-3 Studying Life

Although living things vary greatly, all living things share eight characteristics:

1. Living things are made up of units called cells. Cells are the smallest units of an organism that can be considered alive.
2. Living things reproduce. In sexual reproduction, cells from two different parents unite to produce the first cell of the new organism. In asexual reproduction, a single cell divides in half to form two new organisms.
3. Living things are based on a universal genetic code. The directions for inheritance are carried by a molecule called DNA.
4. Living things grow and develop. Multicellular organisms typically go through a process called development. As cells divide, they change in shape and structure in a process called differentiation.
5. Living things obtain and use materials and energy. The combination of chemical reactions through which an organism builds up or breaks down materials as it carries out its life processes is called metabolism.

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Hesse-Biber, 2011-10-30 This Handbook presents both a theoretical and practical approach to conducting social science research on for and about women It develops an understanding of feminist research by introducing a range of feminist epistemologies methodologies and emergent methods that have had a significant impact on feminist research practice and women s studies scholarship Contributors to the Second Edition continue to highlight the close link between feminist research and social change and transformation The new edition expands the base of scholarship into new areas with 12 entirely new chapters on topics such as the natural sciences social work the health sciences and environmental studies It extends discussion of the intersections of race class gender and globalization as well as transgender transsexualism and the queering of gender identities All 22 chapters retained from the first edition are updated with the most current scholarship including a focus on the role that new technologies play in the feminist research process **A Survey of the Forensic**

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,1965 *Philosophies and Theories for Advanced Nursing Practice* Janie B. Butts,Karen L. Rich,2021-08-16 *Philosophies and Theories for Advanced Nursing Practice* Fourth Edition provides a broad foundation in philosophy for nursing students with its focus on the structure function and evaluation of theory Making World Development Work Grégoire Leclerc,Charles A. S. Hall,2007-06-16 The authors reexamine world development usually the province of economists as professionals trained in the natural sciences They show how we have and might use tested scientific and technical procedures and concepts as well as science itself to achieve much better results than what has been characteristic of the past Leclerc and Hall contend that to scholars with a scientific background the process of development and the economic logic behind it often look almost surrealistic The basic question at the foundation of this review is this Why should something so important as world development something capable of absorbing such vast sums of money and of human goodwill something that impacts the people and the environment so much continue to be organized and planned using economic techniques and theories that are both unconfirmed experimentally and proven to have led to development failures BOOK JACKET **Teaching Rapid and Slow Learners in High Schools** Romaine Prior Mackie (1898-),Abul Hassan K. Sassani,Clayton D. Hutchins,Elizabeth (Nelson) Layton,Gertrude Minnie Lewis,Henry Horton Armsby,Nora Ernestine Beust,United States. Office of Education,Wilhelmina Hill,Helen Katherine Mackintosh,Lloyd M. Dunn,1954 Lecture-free Teaching Bonnie S. Wood,2009 *The Nurture Versus Biosocial Debate in Criminology* Kevin M. Beaver,J.C. Barnes,Brian B. Boutwell,2014-01-31 *The Nurture Versus Biosocial Debate in Criminology* On the Origins of Criminal Behavior and Criminality takes a contemporary approach to address the sociological and the biological positions of human behavior by allowing preeminent scholars in criminology to speak to the effects of each on a range of topics Kevin M Beaver J C Barnes and Brian B Boutwell aim to facilitate an open and honest debate between the more traditional criminologists who focus primarily on environmental factors and contemporary biosocial criminologists who examine the interplay between biology genetics and environmental factors Good Statistical Practice for Natural Resources Research Roger Stern,2004 Part 1 Introduction Chapter 1 What is Natural Resources Research Chapter 2 At Least Read This Chapter 3 Sidetracks Part 2 Planning Chapter 4 Introduction to Research Planning Chapter 5 Concepts Underlying Experiments Chapter 6 Sampling Concepts Chapter 7 Surveys and Studies of Human Subjects Chapter 8 Surveying Land and Natural Populations Chapter 9 Planning Effective Experiments Part 3 Data Management Chapter 10 Data Management Issues and Problems Chapter 11 Use of Spreadsheet Packages Chapter 12 The Role of a Database Package Chapter 13 Developing a Data Management Strategy Chapter 14 Use of Statistical Software Part 4 Analysis Chapter 15 Analysis Aims and Approaches Chapter 16 The DIY Toolbox General Ideas 16 1 Opening the Toolbox 221 Chapter 17 Analysis of Survey Data Chapter 18 Analysis of Experimental Data Chapter 19 General Linear Models Chapter 20 The Craftsman s Toolbox Chapter 21 Informative Presentation of Tables Graphs and Statistics Part 5 Where Next Chapter 22 Current Trends and their Implications for Good Practice Chapter 23 Resources and

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