

Benefits and Outcomes

KEY QUESTION What is the relationship between science and society?

Science interacts with society, laws, and moral principles. Science also has a big impact on health, medical issues, and environmental issues such as energy and waste disposal.

Science, Ethics, and Morality Science and engineering usually only tell us what is possible or what we could do. They do not tell us what we should or should not do. Applying scientific information provides understanding the role of science in society and its importance. Science by itself does not include ethical or moral arguments.

Avoiding Bias Scientists should be objective, but like everyone else, they have likes, dislikes, and biases. A bias is a personal, rather than scientific, view for or against something. Scientists with different personal biases may interpret data in different ways. Bias affects what actions scientists recommend.

Science and Engineering Practices

KEY QUESTION What practices are shared by science and engineering?

Although some of the specifics vary, the steps in scientific inquiry and engineering design are basically the same.

Developing and Using Models Scientists and engineers both use models. Models include diagrams and three-dimensional models, but also include mathematical models and computer simulations. Models help people to visualize and communicate ideas.

Using Mathematics and Computational Thinking

Mathematics is important to science and engineering. Ratios, rates, percentages, and unit conversions are some basic ways to analyze data. A mathematical representation can model data and support explanations.

Constructing Explanations and Designing Solutions

Scientists attempt to answer questions about the natural world. Scientists then construct explanations that are supported by evidence. Engineers design solutions to problems.

Engaging in Argument From Evidence In science, an argument is a set of reasons that explain why an idea is right or wrong. Scientists must respond thoughtfully to critiques. Engineers must argue that their design solutions will work and compare them to competing design solutions.

BUILD Vocabulary

bias a particular preference or point of view that is personal, often from scientists

Word Origin The word bias comes from the French word *biais*, meaning "slant" or "oblique." Therefore, when someone has a bias, he or her point of view is "slanted" in one direction. Of a scientist who works for a company that makes products from plants, publishes a paper on energy efficiency. They claim that harvesting more is efficient & more efficient than other power. Describe their possible bias.

Sample answer: The scientist might favor information that helps his company, and ignore evidence that favors solar energy.

LESSON 3

Patterns of Life

READING TOOL Main Ideas and Details Complete the chart. Write the main idea in the left column and the details or examples that explain the main idea in the right column. Part of the table is filled out for you.

Sample answers are given below.

Characteristics of Living Things

Main Idea	Details
Made up of cells	Cells are the smallest units of living things.
Reproduction	Organisms produce new organisms using sexual or asexual reproduction.
Based on a universal genetic code	Traits are passed on through DNA, the genetic code is the same for all organisms.
Growth and development	All living things grow, multicellular organisms go through development and differentiation.
Need for materials and energy	Organisms need nutrients for energy and materials.
Response to the environment	Organisms respond to internal and external stimuli.
Maintaining internal balance	Maintenance requires internal conditions.
Evolution	In a group, organisms change over time to adapt to changing conditions.

Lesson Summary

Characteristics of Living Things

KEY QUESTION What characteristics of living things share?

Biology is the science of living things. Living things are made up of basic units called cells, reproduce, are based on a universal genetic code, grow and develop, obtain and use materials and energy, respond to their environment, maintain a stable internal environment, and change over time.

As you read, circle the answers to each Key Question. Underline any words you do not understand.

Pearson Education Study Guide Answers Biology

**Kenneth Raymond Miller, Nancy
Montgomery, Joseph S. Levine**

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diagrams **Cumulated Index to the Books** ,1965 *Bridging the Gap* Brenda D. Smith,2008 The Software Encyclopedia ,1988 **American Book Publishing Record** ,2004 **Whitaker's Books in Print** ,1998 **The British National Bibliography** Arthur James Wells,2005 *Medical Books and Serials in Print* ,1983 **Science Inquiry, Argument and Language** Brian M. Hand,2008 Science Inquiry Argument and Language describes research that has focused on addressing the issue of embedding language practices within science inquiry through the use of the Science Writing Heuristic approach In recent years much attention has been given to two areas of science education scientific argumentation and science literacy The research into scientific argument have adopted different orientations with some focusing on science argument as separate to normal teaching practices that is teaching students about science argument prior to using it in the classroom context while others have focused on embedding science argument as a critical component of the inquiry process The current emphasis on science literacy has emerged because of greater understanding of the role of language in doing and reporting on science Science is not viewed as being separate from language and thus there is emerging research emphasis on how best to improving science teaching and learning through a language perspective Again the research orientations are parallel to the research on scientific argumentation in that the focus is generally between instruction separate to practice as opposed to embedding language practices within the science classroom context

Biology Gareth Rowlands,2003 This study guide for A level Biology provides short revision sessions which include extra activities checkpoints and hints in the margin There is also an in depth resources section which explains the skills and techniques needed for exam success The Publishers' Trade List Annual ,1985

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