

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 involves understanding the role of science in society and its limitations. Science by itself does not include ethical or moral viewpoints.

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 summarize 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 criticisms. 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 rather than scientific

Word Origin Bias comes from the French word *biais*, meaning "slant" or "slope." Therefore, when someone has a bias, he or she points of view is "slanted" in one direction.

IF A scientist who works for a company that makes products from plants publishes a paper on energy efficiency. They claim that converting corn to ethanol is more efficient than solar power. Describe their possible bias.

Sample answer: The

scientist might favor

information that helps

his company and ignores

evidence that favors solar

energy.

LESSON

3

Patterns of Life

STANDARD TOOL Main Idea and Details Complete the chart. Write the main ideas 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

Characteristic	Details
Made up of cells	Cells are the smallest units of living things.
Reproduction	Organisms produce new organisms using asexual or sexual 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	Homeostasis maintains internal conditions.
Evolution	As a group, organisms change over time to adapt to changing conditions.

Lesson Summary

Characteristics of Living Things

KEY QUESTION What characteristics do all 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.

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Yan Bai



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