

1 The Science of Biology

Big Idea

Science as a Way of Knowing

Q: What role does science play in the study of life?

1.1 How do we find explanations for events in the natural world?

WHAT I KNOW

SAMPLE ANSWER: Asking questions about events in the natural world can yield answers. Answers can also be found in books, journals, and online.

WHAT I LEARNED

SAMPLE ANSWER: After posing questions and making observations, scientists may make inferences that can lead to a hypothesis. Data from experiments can be used as evidence to support, refute, or revise the hypothesis.

1.2 How do the scientific community and society influence the process of science?

SAMPLE ANSWER: The needs of society can spur scientific inquiry.

SAMPLE ANSWER: Science and scientists operate in the context of the scientific community and society at large. Often, questions that involve society cannot be answered by science alone.

1.3 What is biology?

SAMPLE ANSWER: Biology is the study of living things.

SAMPLE ANSWER: Biology is the science that employs scientific methodology to study living things.

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Biology Kenneth Raymond Miller, Nancy Montgomery, Joseph S. Levine, 2008

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