

The Study of Life

Before You Read

Use the “What I Know” column to list the things you know about biology. Then list the questions you have about biology in the “What I Want to Find Out” column.

K What I Know	W What I Want to Find Out	L What I Learned

Science Journal

Animals, plants, and prokaryotes are considered living things. But what do we mean when we say that an organism is a living thing? In the space below, describe two characteristics that are common to all living things.

The Study of Life

Section 1 Introduction to Biology

Main Idea _____

Details _____

Skim Section 1 of the chapter. Write three questions that come to mind from reading the headings and illustration captions.

1. _____
2. _____
3. _____

Review Vocabulary

Use your book or dictionary to define environment.

environment

New Vocabulary

Use your book or dictionary to help you write the correct vocabulary term in each blank.

adaptation

biology

development

growth

homeostasis

organism

organization

reproduction

response

species

stimulus

_____ is the science of life. A(n) _____ is anything that has all the characteristics of life. All living things are arranged in an orderly way. In other words, living things have _____. Most living things begin as one cell. The addition of mass is called _____. Over an organism's life, natural changes, called _____, take place. The production of offspring, or _____, must occur to enable the group of breeding organisms, or _____, to continue to exist. A living thing also has the ability to react to a(n) _____ from its internal or external environment. The reaction is called a _____. An organism must be able to maintain its internal conditions. If anything upsets its normal state, processes to restore _____ begin. Any inherited characteristic, or _____, developed in a species over time can enhance the species' ability to survive and produce offspring in its environment.

Section 1 Introduction to Biology (continued)

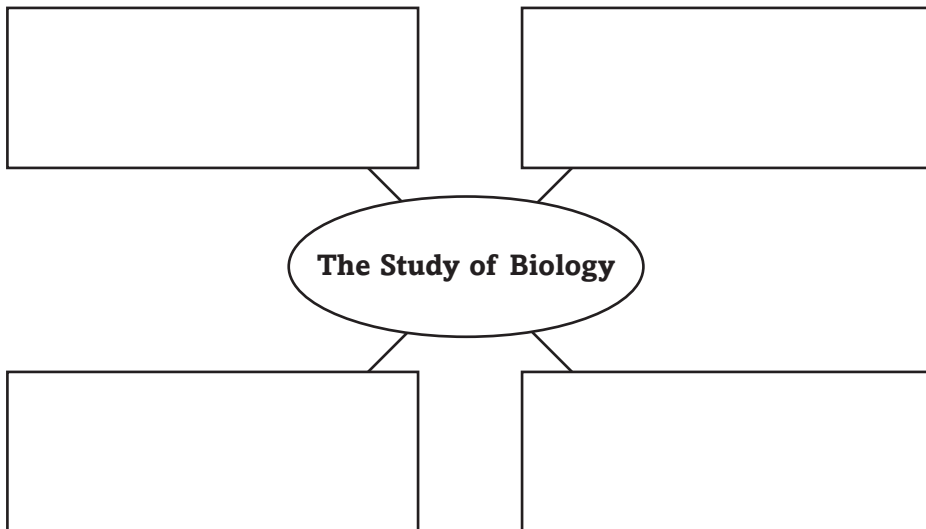
Main Idea _____

Details _____

The Science of Life

I found this information on page _____.

Identify four kinds of information you will learn about living things when you study biology.



What Do Biologists Do?

I found this information on page _____.

Model one specific question that a biologist might seek to answer for each of the following areas of study.

Area of Study	Question
Diversity of life	
Diseases	
New technologies	
Agriculture	
Environment	

Analyze the specific type of work in biology that you might like to do, and explain why.

Type of work: _____

Reason: _____

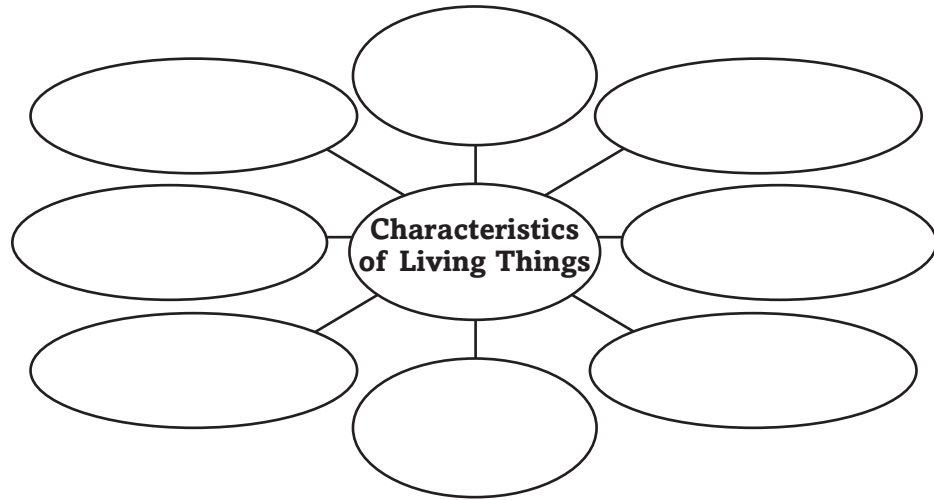
Section 1 Introduction to Biology (continued)

Main Idea _____ **Details** _____

The Characteristics of Life

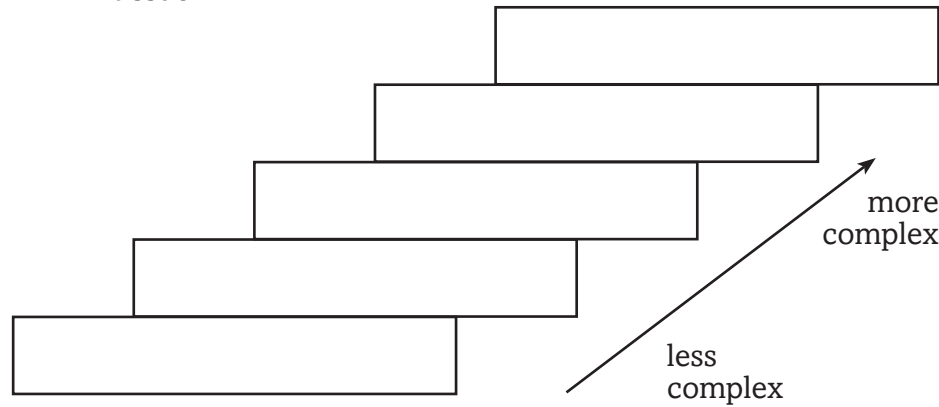
I found this information on page _____.

Identify the eight characteristics that something must have to be alive.



Sequence the levels of organization listed below in the correct order from least complex to most complex.

- organ
- atoms and molecules
- cell
- organ system
- tissue



CONNECT

A friend argues that a car is alive because its parts form organized systems and it requires energy (gasoline and battery power). How would you respond to your friend?
