Name _____ Date _____ Class _____

Lesson Outline

LESSON 1

Characteristics of Life

A. Characteristics of Life

1. All _____ things are organized, grow and develop, reproduce, respond, maintain certain internal conditions, and use energy.

2. Things that have all the characteristics of life are called _____.

B. Organization

1. Whether an organism is made of only one _____—the smallest unit of life—or many cells, all living things have structures that have specific functions.

2. Living things that are made of only one cell are called _____ organisms.

3. Living things that are made of two or more cells are called _____ organisms.

4. Living things with more than one cell have a greater level of _____ because groups of cells function together.

C. Growth and Development

1. Living things grow by increasing _____ or increasing cell number.

2. The changes that occur in an organism during its lifetime are called _____.

D. Reproduction

1. _____ is the process by which one organism makes one or more new organisms.

2. Some organisms must have a(n) _____ to reproduce, but others can reproduce without one.

E. Responses to Stimuli

1. All living things can _____ to changes in the environment. These changes are called _____ and can be internal or external.

2. Hunger and thirst are examples of _____ stimuli.

3. Some examples of _____ stimuli are light and temperature.

Lesson Outline continued

F. Homeostasis

1. An organism's ability to maintain steady internal conditions when outside conditions change is called _____. Maintaining these conditions ensures that cells can _____.

2. When your outside environment becomes too hot or too cold, your body responds by sweating, shivering, or changing the flow of _____ to maintain a body temperature of 37°C.

G. Energy

1. Cells continuously use _____ to transport substances, make new cells, and perform chemical reactions.

2. For most organisms, the energy they use originally came to Earth from the _____.

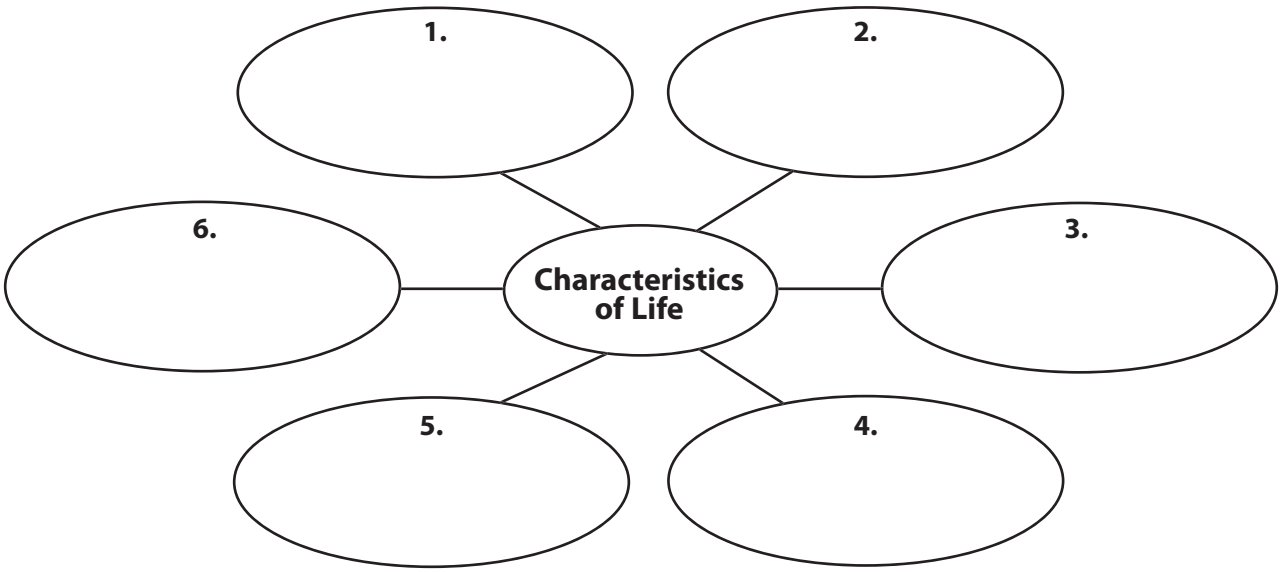
Name _____ Date _____ Class _____

Content Practice B

LESSON 1

Characteristics of Life

Directions: *Complete the concept map by filling in each of the six characteristics of life.*



Directions: *Answer each question on the lines provided.*

7. How is the characteristic of organization in a unicellular organism different from organization in a multicellular organism?

_____

_____

_____

_____

8. What is homeostasis?

_____

_____

9. What is the difference between internal stimuli and external stimuli? Give examples.

_____

_____

_____