

CHAPTER

2

CHAPTER REVIEW WORKSHEET

*It's Alive!! Or, Is It?***USING VOCABULARY**

To complete the following sentences, choose the correct terms from each set of terms listed below, and write the term in the space provided.

1. The process of maintaining a stable internal environment is known as _____ . (metabolism or homeostasis)
2. The resemblance of offspring to their parents is a result of _____ . (heredity or stimuli)
3. A _____ obtains food by eating other organisms. (producer or consumer)
4. Starch is a _____ and is made up of _____ . (carbohydrate/sugars or nucleic acid/nucleotides)
5. Fats and oils are _____ that store energy for an organism. (proteins or lipids)

UNDERSTANDING CONCEPTS**Multiple Choice**

6. Cells are
 - a. the structures that contain all the materials necessary for life.
 - b. found in all organisms.
 - c. sometimes specialized for particular functions.
 - d. All of the above
7. Which of the following is a true statement about all living things?
 - a. They cannot sense changes in their external environment.
 - b. They reproduce.
 - c. They do not need to use energy.
 - d. They reproduce asexually.
8. Organisms must have food because
 - a. food is a source of energy.
 - b. food supplies cells with oxygen.
 - c. organisms never make their own food.
 - d. All of the above
9. A change in an organism's environment that affects the organism's activities is a
 - a. response.
 - b. stimulus.
 - c. metabolism.
 - d. producer.

It's Alive!! Or, Is It? continued

- 10.** Organisms store energy in molecules of
- a. nucleic acids.
 - b. phospholipids.
 - c. lipids.
 - d. water.
- 11.** The molecule that contains the information on how to make proteins is
- a. ATP.
 - b. a carbohydrate.
 - c. DNA.
 - d. a phospholipid.
- 12.** The subunits of nucleic acids are
- a. nucleotides.
 - b. oils.
 - c. sugars.
 - d. amino acids.

Short Answer

- 13.** What is the difference between asexual reproduction and sexual reproduction?

- 14.** In one or two sentences, explain why living things must have air.

- 15.** What is ATP, and why is it important to a cell?

It's Alive!! Or, Is It? continued

CRITICAL THINKING AND PROBLEM SOLVING

Write one or two sentences to answer each of the following questions:

17. A flame can move, grow larger, and give off heat. Is a flame alive? Explain.

18. Based on what you know about carbohydrates, lipids, and proteins, why is it important for you to eat a balanced diet?

19. Your friend tells you that the stimulus of music makes his goldfish swim faster. How would you design a controlled experiment to test your friend's claim?

It's Alive!! Or, Is It? continued

MATH IN SCIENCE

20. An elephant has a mass of 3,900 kg. If 70 percent of the elephant's mass comes from water, how many kilograms of water does the elephant contain?

INTERPRETING GRAPHICS

Turn to page 49 in your book. Examine the illustrations, which show the same plant over a time span of 3 days.

21. What is the plant doing?

22. What characteristic(s) of living things is the plant exhibiting?

NOW WHAT DO YOU THINK?

Take a minute to review your answers to the ScienceLog questions at the beginning of the chapter. Have your answers changed? If necessary, revise your answers based on what you have learned since you began this chapter. Record your revisions in your ScienceLog.