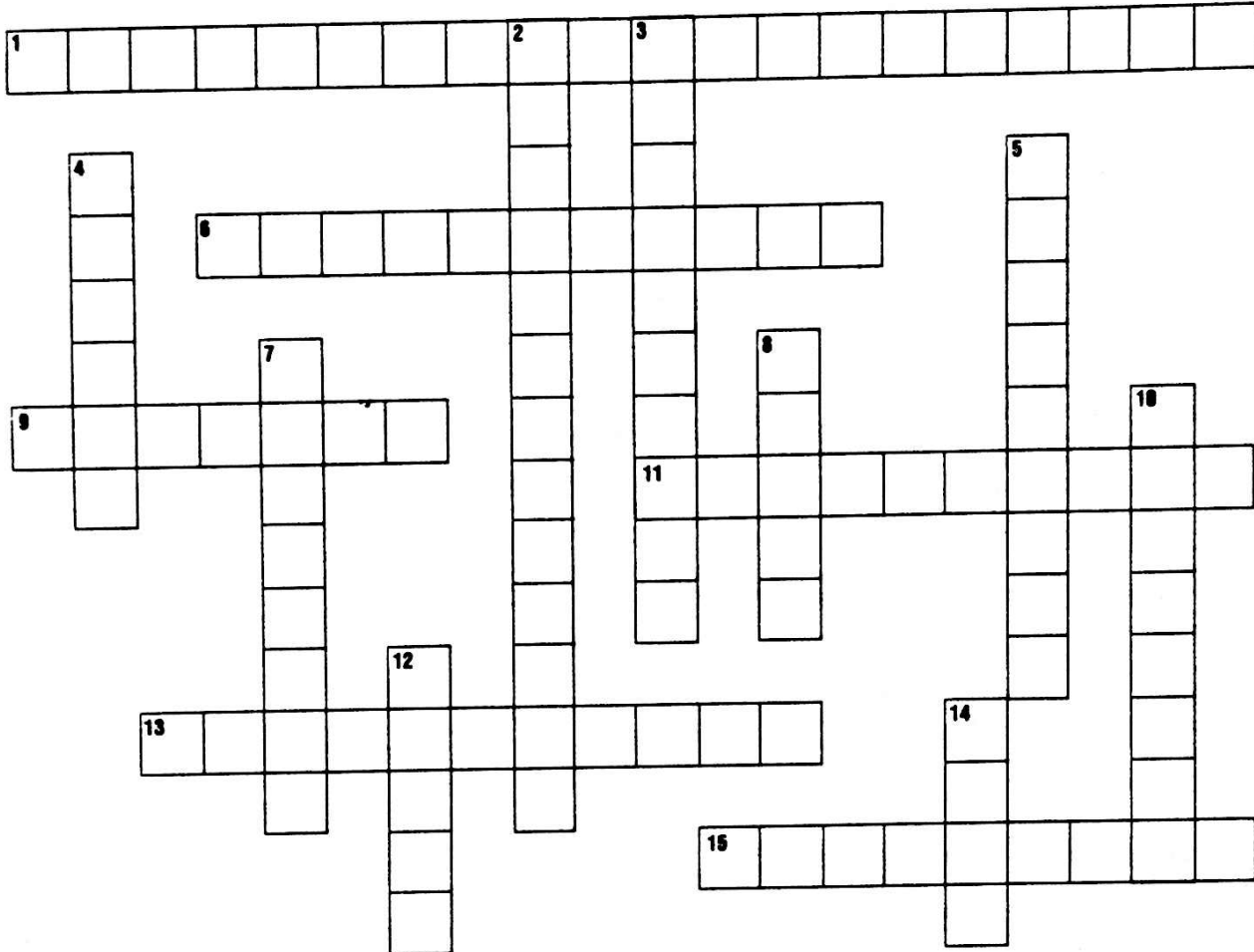


Chapter Review

Cells

Part A. Vocabulary Review

Directions: Use the clues below to complete the crossword puzzle.



Across

1. A series of folded membranes that move materials around in the cell
6. Green organelles in the cytoplasm of plant cells
9. Directs all the activities of the cell
11. Structures within the cytoplasm of eukaryotic cells
13. Flattened membranes that package cellular substances for export
15. Small, two-part structures in cells that make proteins

Down

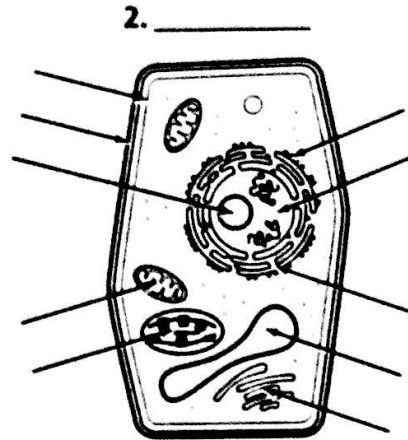
2. Organelle where energy is released from broken-down food molecules

3. Summary of scientists' observations and conclusions about cells
4. A group of similar cells that work together to do one job
5. Gelatinlike mixture inside the cell membrane
7. Encloses the cells of plants, algae, fungi, and most bacteria
8. A structure made up of different types of tissues that work together
10. Protective outer covering around all cells
12. A strand of hereditary material surrounded by a protein coating
14. Cell in which a virus multiplies itself

Chapter Review (continued)

Part B. Concept Review

Directions: Study the following diagrams. Write **P** above the plant cell and **A** above the animal cell. Then label the cells using the numbers of the correct terms from the list.



- | | | | |
|------------------|------------------|---------------------------|-----------------|
| 3. nucleus | 6. ribosomes | 9. cytoskeleton | 11. chloroplast |
| 4. cell membrane | 7. mitochondrion | 10. endoplasmic reticulum | 12. Golgi body |
| 5. vacuole | 8. cell wall | | 13. nucleolus |

14. Number the events in the correct historical order in the blanks provided.

- _____ a. Virchow hypothesized that cells divide to form new cells.
- _____ b. Hooke gave the name "cells" to the little boxes he saw under magnification.
- _____ c. The first microscope was invented.
- _____ d. Schleiden concluded that all plants are made up of cells, and Schwann concluded that all animals are made of cells.

Directions: Answer the following questions on the lines provided.

15. List the three parts of the cell theory.

- a. _____
- b. _____
- c. _____

16. Explain the difference between one-celled organisms and many-celled organisms.

17. Explain the difference between prokaryotic and eukaryotic cells.
