

Cell Theory

Name:

Period:

Use Chapter 4, Section 1 of your textbook to answer the questions below. A ★ means a three-word answer.

Section 1: The Characteristics of Cells (p.114)

1. Most cells are so _____ you cannot see them with just your eyes.
2. The _____ is the smallest structural and functional unit of living things.

Cells and the Cell Theory (p.114)

3. Robert Hooke built a _____ so he could see tiny objects.
4. What did Hooke call the little boxes that he saw in the cork bark? _____
5. The “juicy” cells that Hooke observed in plants were actually _____ cells.
- _____ 6. Why didn't Hooke think animals were made of cells?
 - a. Hooke couldn't see the animal cells.
 - b. Animals do not have cells.
 - c. Animal cells have cell walls.
 - d. Animal cells are too dry.



Finding Cells in Other Organisms (p.115)

- _____ 7. Where did Leeuwenhoek find what he called *animalcules*?
 - a. in fish scales
 - b. in cork
 - c. in feathers
 - d. in pond scum
8. Single-celled living things that are found in pond water are now called _____.
9. Leeuwenhoek observed that blood cells look _____ in different kinds of animals.
10. Look at Figure 2. The cells of bacteria are much _____ than most other types of cells.

The Cell Theory (p.115)

11. Schwann figured out that animal _____ are made of cells.
- _____ 12. What theory says that living things are made of cells?
 - a. organic theory
 - b. tissue theory
 - c. structural theory
 - d. cell theory
13. All organisms are made of _____ cells. ★
14. According to cell theory, the cell is the basic piece of all _____ things.
15. All cells come from _____ cells.