

Cell Biology

Name:

Cell Theory

Period:

Use Chapter 4, Section 1 of your textbook to answer the questions below. The word bank can be used to fill out the sentences below.

cell cells different existing living living microscope one or more protists
small smaller tissues

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.