

## Cell Biology

Name:

## Cell Theory

Period:

Use Chapter 4, Section 1 of your textbook to answer the questions below.

### 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.