

## Cell Biology

Name:

## Cell Theory

Period:

Use Chapter 4, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them. Some terms may be used more than once.

cell cells different existing 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.