

# Discovering Cells 3.1

Date \_\_\_\_\_

Last Name \_\_\_\_\_ First \_\_\_\_\_ Period \_\_\_\_\_

1. What are cells?
  - a. Cells are the \_\_\_\_\_ of structure and \_\_\_\_\_ in living things.
  - b. How many skin cells would fit into a square inch? \_\_\_\_\_
  
2. The discovery of cells was a major breakthrough in science.
  - a. What invention led to the discovery of cells? \_\_\_\_\_
  - b. Who was one of the first scientists to discover cells with his homemade compound microscope?  
\_\_\_\_\_
  - c. What did Hooke observe with his microscope that contained, what he called cells?  
\_\_\_\_\_
  
3. Also around that same time another scientist invented a simple microscope that could magnify objects 266 times. With it , he observed pond water.
  - a. Who was this scientist? \_\_\_\_\_
  - b. What did he find in the pond water and what did he call them? \_\_\_\_\_
  - c. What did Leewunhoek discover on human teeth? \_\_\_\_\_
  
4. Describe the improvements made to the microscope over time by completing the table below.

Date	Type of microscope	Achievement
1595	Compound Microscope	Invention of the first microscope of its kind
1660	Hooke's compound microscope	
1683		Discovered one celled critters
	Modern Compound Light Microscope	
	Transmission Electron Microscope	
		3d images Magnified up to 150,000 times
1981		

5. Name the 3 Scientists contribute to the cell theory.
- \_\_\_\_\_ - studied plants
  - \_\_\_\_\_ studied animal tissue
  - \_\_\_\_\_ studied dividing cells
6. What are the 3 parts of the cell theory?
- All living things are made of \_\_\_\_\_
  - Cells are the basic \_\_\_\_\_ of \_\_\_\_\_ and \_\_\_\_\_
  - All cells are produced from \_\_\_\_\_
7. All living things are made of cells. List 7 types of critters that are made of cells.
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
8. Cells are the basic unit of structure and function.
- What is the function of a muscle cell? \_\_\_\_\_
  - What is the function of a blood cell? ? \_\_\_\_\_
  - What is the function of a sex cell? \_\_\_\_\_
9. Where do cells come from? \_\_\_\_\_
10. Draw a picture of a cell