

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

**Reinforcement Worksheet – Cell Theory, Scientists, & Cell Types**

The invention of the microscope in the late 1500s revealed to early scientists a whole new world of tiny cells. Most cells are so small that they cannot be seen without a microscope. The discoveries of scientists from the 1600s through the 1800s led to the cell theory, which is a unifying concept of biology.

1. What is the smallest, most basic unit of life?
2. What is the idea called spontaneous generation about?
3. Why might an otherwise intelligent person believe in spontaneous generation? Explain.
4. Describe Redi's hypothesis.
5. Describe how Redi tested his hypothesis.
6. Explain why Pasteur's experiment was so much better than Spallanzani's.
7. Why did people doubt Spallanzani's hypothesis?
8. Draw a picture of Pasteur's special flask.
9. Explain three ways Pasteur's invention of "pasteurization" helps you today.
10. In the chart below tell what each scientist did to help develop the cell theory.

<b>Scientist</b>	<b>Contribution to Cell Theory</b>
Hooke	
Leeuwenhoek	
Schleiden	
Schwann	
Virchow	