

# Cell Theory and Cell Structure

## **WRITE THE QUESTIONS...**

### **PART I**

Go to the web site by clicking on the hyperlink below:

[http://www.visionlearning.com/library/module\\_viewer.php?mid=64&l=&c3](http://www.visionlearning.com/library/module_viewer.php?mid=64&l=&c3)

Answer the questions below by reading the text and exploring the webpage.

#### **Questions:**

1. Who observed tiny chambers within cork and called them cells?
2. One of the First Microscopes was made by the \_\_\_\_\_.  
With his hand-held microscope, he became the first person to observe and describe microscopic organisms and living cells.
3. List three scientists who contributed to the development of the Cell Theory.
4. Write the four basic premises of the Cell Theory.
5. What two generalizations can be made about cells and life?
6. What is the most important PRODUCT of cells and lies at the center of all cellular activity?
7. All cells, regardless of function, have THREE BASIC FEATURES.  
Summarize these features.
8. Describe the differences between **PROKARYOTIC** and **EUKARYOTIC** cells and provide an example of an organism of each type.
9. Cite TWO important differences between PLANT and ANIMAL cells.
10. Are all cells within an organism the same? If so, how can they differ?

## Part II

1. In this section of the Web Quest you will go into the cell and take a closer look at the various structures that carry out the functions and life activities of cells. Click on the hyperlink below:

<http://www.nsf.gov/news/overviews/biology/interactive.jsp>

To activate this page, click on the picture. You should now be able to navigate freely throughout the cell. When you "mouse over" a numbered structure the name of that structure will appear. **Click on the name** and you will be linked to a brief description of the ORGANELLE and its function. When you are finished reading about the structure and function of the organelle, click on the ***Explore more*** to navigate back to the cell.

2. Next go to: <http://www.cellsalive.com/cells/3dcell.htm>

Click on the links for eukaryotic (animal and plant) and prokaryotic cells.

Click on **START ANIMATION** and learn about the organelle functions and locations for the three types of cells. **Complete the organelle worksheet as you go.**