Cell Organelle Web Quest

Objective: Upon completion of this activity, you should be able to describe the cell and identify its parts (organelles). You should be able to distinguish between plant and animal cells.

# PART I

Go to: [www.wisc-online.com/objects/index\_tj.asp?objid=AP11604](http://www.wisc-online.com/objects/index_tj.asp?objid=AP11604)

Click “Next” to begin the activity. Answer the following questions.

1. What do ribosomes do?

2. What do they look like?

3. What does the Golgi apparatus (or Golgi bodies) do?

4. What is the function of the mitochondria?

5. Which type of cell has many peroxisomes?

6. What is the function of the nucleus?

7. What is chromatin?

# PART II

Go to the interactive cell models at [www.cellsalive.com/cells/3dcell.htm](http://www.cellsalive.com/cells/3dcell.htm).

8. What is the difference between smooth and rough endoplasmic reticulum (ER)?

9. Where is the nucleus found?

10. Cytosol goes by what other name?

11. What is the function of a lysosome?

12. What makes plant cells green?

13. What does a vacuole do?

**14. NOW USE THE INTERACTIVE CELLS TO HELP YOU LABEL YOUR CELL DIAGRAMS. DON’T FORGET TO DO BOTH THE PLANT AND THE ANIMAL CELL!!!**

Note: Your diagrams do not include peroxisomes, secretory vesicles, or the cytoskeleton. Do not include these parts on your diagram!

# PART III

Go to the Cell Comparison Tutorial

<http://wps.pearsoncustom.com/wps/media/objects/3014/3087289/Web_Tutorials/04_A01.html>

<http://www.biology.arizona.edu/cell_bio/tutorials/cells/cells2.html>

<http://www.biology.arizona.edu/cell_bio/tutorials/pev/page2.html>

Fill in *Animal vs. Plant Cell*

15. Complete the Double Bubble Thinking Map Diagram and make a copy of the correct answers here.

**Animal Cell Plant Cell**

# PART IV

Cell Quiz: Go to [http://www.biologycorner.com/quiz/qz\_cell\_parts.html](http://www.biologycorner.com/quiz/qz_cell_parts.html%20) . Complete the cell quiz. **When you are finished, raise your hand to show your score to your teacher. Score \_\_\_\_\_\_\_\_\_ Teacher’s signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PART V**

Finished with time to spare? Go back to [www.cellsalive.com/cells/3dcell.htm](http://www.cellsalive.com/cells/3dcell.htm).

Click on PUZZLES on the left hand side of the screen and complete a cell puzzle.

You may also try a review game:

Battleship: [www.quia.com/ba/15335.html](http://www.quia.com/ba/15335.html)

Matching: [www.quia.com/mc/310905.html](http://www.quia.com/mc/310905.html)