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

PART I
Go to: 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 is the difference between SER (smooth ER) and RER (rough ER)?

4. What is the function of the golgi complex (apparatus)?

5. The mitochondria is VERY important to our cell function because it...

6. What are the folds inside the mitochondria called?

7. What do lysosomes do and where are they found in the cell?

8. The centrosome contains c____________ which are important during c_________
    d_____________________.

9. What two main components can be found in the nucleus?
10. Click on “constructing the cell membrane” and draw a labeled sketch of the cell membrane:

PART II
Go to the interactive cell models at www.cellsalive.com/cells/3dcell.htm. Click “Start the Animation” and click “animal cell”

11. Cytosol goes by what other name?

12. The nucleolus is very important during the process of p____________ s____________

13. What does a vacuole do?

14. Click on “plant cell” and describe the job of the chloroplast:

15. Other than the chloroplast, what is one other organelle found in a plant cell that is not found in an animal cell?

16. Compare the overall shape of the plant cell versus the animal cell:

17. NOW USE THE INTERACTIVE CELLS TO HELP YOU LABEL AND COLOR YOUR CELL DIAGRAMS ON THE NEXT PAGE. 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 Chart at

http://www.diffen.com/difference/Animal_Cell_vs_Plant_Cell

and use the information to fill in the Venn Diagram on the next page
Complete the Venn Diagram and make a copy of the correct answers here.

**PART IV**
Cell Quiz: Go to [https://www.biologycorner.com/quiz/qz_cell_parts.html](https://www.biologycorner.com/quiz/qz_cell_parts.html) 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 right 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)