**Cell Organelles and Functions**

**Part 1: Review the parts of the cell by visiting** <http://www.cellsalive.com/cells/cell_model.htm>

Click through the animation for plant and animal cells.

Take any notes you need to on the organelles and their functions. You may remember much of this from Regents Bio, so focus on the organelles you lack familiarity with or don’t remember. Be sure to explore both the animal and plant cells to be reminded of their differences. Don’t go crazy on note-taking, just make brief notes to remind you of basic functions.

***Answer the following questions:***

1. Where are ribosomes made?
2. What is the function of ribosomes and where do you find them?
3. What is the function of a peroxisome?
4. When are centrosomes most active?
5. What three primary proteins make up the cytoskeleton?
6. What are three functions of the Smooth ER?
7. Where would you find stroma and thylakoids (or grana)?
8. What polysaccharide makes up the plant cell wall?

***Part 2: Next, visit***

<http://www.carolina.com/teacher-resources/Interactive/online-game-cell-structure-cellcraft-biology/tr11062.tr>

***Complete levels 1 through 3 on the Cell Craft Game.***

*\*if you play for a long time and you just aren’t very good at the game , you may record your progress and call it quits*

Record the following as proof of completion:

Time to complete level one:

Performance Level on defeating the virus wave:

Time to complete next level and defense rating:

Performance Level on injector virus wave:

Performance Level on next virus wave:

***Answer the following questions:***

1. What did you notice about the recycling of materials by the cell?
2. What did you notice about the ATP reserves?
3. What did the cell do with excess glucose and how many glucose did it take to make one?
4. How did the peroxisomes help to maintain homeostasis within the cell?