**Biology Cell Model Project**

**Objective: To better understand the structures that are present in animal and plant cells.**

**Assignment: You are expected to create a 3-D model of a cross section of either an animal cell or a plant cell.**

* **This assignment will be done individually**
* **A complete 3-D model is required (NO drawings).**
* **The cell organelles are to be 3-D as well and realistic looking.**
* **Your cell should be FULL of the appropriate organelles for that cell type, i.e. more than one ribosome, mitochondria, chloroplast, vacuole, lysosome, etc. (See the back of this page for a checklist of organelles required for your cell type.)**
* **Each model must be accompanied by some kind of key identifying all the organelles and the cell type. It can be a numbered key, descriptive key, or you can use tooth pick flags. Your cell cannot be graded without a key!**

**Materials:**

* **You may select any materials that are available to you.**
* **It is not necessary for you to go through any significant expense to complete this project.**
* **Use your imagination; containers like 2-liter pop bottles, salad and milk cartons, paper plates, shoe boxes, and odd and ends around the house work great for this project.**
* **Other items that work well, clay, pipe cleaners, beads, buttons, yarn/string, craft puff balls, felt, cotton balls, paper clips, rubber bands, small pasta, beans, seeds, stick-on jewels, balloons, tooth picks, straws, small rocks, sticks, and hard candy. (PLEASE DO NOT USE FOOD ITEMS NOT IN THIS LIST THAT CAN MELT, MOLD, ETC.)**
* **BE CREATIVE!!!!**

**Due Date:**

* **Bring your model to class on Tuesday December 6 for Hours 5th & 7th and Wednesday December 7th for Hours 2nd and 3rd for presentation to your table.**

**Evaluation:**

 **Your grade will be determined on neatness, originality, level of difficulty and how accurately your model depicts the 3-D structures of a cell. A checklist will be used to assess if you have included all the necessary organelles for the type of cell that you have chosen.**

**Project Worth: 130 points! (Extra credit may be earned for the wow factor.)**