**Biology Cell Model Project**

**Purpose:**

**Modeling is a good way to understand the general structure of a cell. This will be done by creating three dimensional cell organelles, arranging them in an appropriate manner in order to model an actual cell, and studying the relationship between structure and function.**

**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, shoe boxes, and odd and ends around the house work great for this project.**

**Procedure:**

1. **Collect the materials to build a model that represents one of the types of cells listed below. You may choose a between the following eukaryotic cells:**

**Animal**

**OR**

**Plant**

1. **A complete, 3-D model is required. It cannot be a construction of a flat plane. 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 (including multiples of the cellular organelles around the nucleus).**
2. **Each model is to be accompanied by a numbered key (or descriptive key) for identification of the various organelles of the cell. Your cell cannot be graded without this key!**
3. **Bring your model to class on TUESDAY DECEMBER 8, 2015 for presentation to your classmates.**

**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.**

**Each cell should have around 12-14 cell parts labeled. It is worth 130 points!**