27-30= Mastery

24-26=Advanced

21-23=Meets

18-20=Approaching

17 or below= Beginning

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period \_\_\_Date\_\_\_\_\_\_\_\_\_\_\_

**I CAN** identify and explain how each part of a eukaryotic cell works.

\_\_\_\_\_\_correct

30 possible points

**SCORING FOR CELL AS A FACTORY ILLUSTRATION FORMATIVE**

2 points each possible**. HIGHLIGHT THE NAME OF EACH CELL PART ON YOUR DRAWING**.

\_\_\_\_\_ **Cell wall :** **the part of the plant cell that gives rigid shape and support**

*the fence that surrounds the plant cell factory*

\_\_\_\_\_ **Cell Membrane: allows nutrients in and waste products out.**

*DOORS, windows, the walls, floor, and ceiling of the factory.*

\_\_\_\_\_ **Nucleus:** **controls cells activities**

*The main office (CEO) that directs all the activities that occur in the factory.*

\_\_\_\_\_ **Endoplasmic Reticulum:** **where proteins are packaged for delivery in the cell**

*The assembly line along which materials move from point to point within the factory and where the factory workers are making the product—DRAW AROUND THE NUCLEUS*

\_\_\_\_\_ **Ribosomes**: **makes the proteins that are made from amino acids.**

*Workers stationed along the assembly line making the proteins.*

\_\_\_\_\_ **Protein**: **made by the ribosomes and have many functions such as regulating chemical reactions**

*the* ***product***

\_\_\_\_\_ **Chloroplast:** **Where plants & algae make sugar from sunlight and water.**

*the solar panels on the ceilings by windows of the plant factories that capture energy from the sun—DRAW THESE INSIDE THE FACTORY WALLS—COLOR GREEN*

\_\_\_\_\_ **Golgi Complex**: **Proteins are sent here from the ER where they are modified for different functions, encloses the protein in a vesicle and takes the protein out of the cell**

*delivery truck that ships the packages* ***out*** *of the factory. (****NOT*** *ATTACHED TO THE ER)*

\_\_\_\_\_ **Cytoplasm:** **the fluid that *surrounds the organelles***

*The “air” in the factory.*

\_\_\_\_\_ **Mitochondria:** **breaks down food molecules to make ATP-energy for a cell’s activities**

*The power stations that provide the energy to meet the operation and production needs*

*of the factory.*

\_\_\_\_\_ **Vacuole: Serves as a storage container for water & other liquids (very large in plants)**

*the tanks that store water and other dissolved materials.*

\_\_\_\_\_ **Lysosomes**: **a vesicle that digests food particles, wastes, & foreign invaders**

*the clean up crew for dust, dirt and garbage*

The following is worth **6 points**:

\_\_\_\_\_ **Strong Representation** (EFFORT).