BIOLOGY - 3D CELL MODEL

TASK: Construct a three-dimensional model of either a plant or an animal cell.

DUE DATE: Thursday, Jan. 18

POINT VALUE: 30 points

GUIDELINES:

- Must be 3D, including parts (not just shapes of paper cut out and glued onto a sphere)
- Each of the listed cell structures must be represented accurately for:
    - relative size
    - amount
    - shape
    - structural details
    - placement/location within cell
- Choice of medium is open – some options are play doh or clay, craft supplies (pipe cleaners, beads, yarn, etc), food items (fruits, vegetables, candy), styrofoam, fabric, Legos, metal, any combination of these or other items you can find
- Use your imaginations and have fun!
- Identify as a plant cell or animal cell
- Label each cell structure with its full name or numbered and identified using a key
- Use the grading rubric to help guide you

BIOLOGY - 3D CELL MODEL GRADING RUBRIC

Student Name: _____ Date Submitted: _____ Score: ____ /30

Identified as Animal Cell or Plant Cell: ____ / 2

Overall Three-Dimensionality: ____ / 2

% Accuracy of Cell Structures as indicated on the following table: _____ = _____ / 26

Cell Structure	3D	Relative Size	Shape	Structural Details	Relative Amount	Location	Labeled
Cell Wall (plant only)							
Cell Membrane							
Nucleus							
Ribosomes							
Rough Endoplasmic Reticulum							
Smooth Endoplasmic Reticulum							
Golgi Apparatus							
Vacuole(s)							
Lysosomes (animal only)							
Mitochondria							
Chloroplasts (plant only)							
Cytoskeleton							