

NAME: _____

3-D Cell Model Project
(100 points)

Project Assigned: _____

Project Due: _____

Objective: By making a 3-D model of the cell, the student will become aware of the various organelles and structures, which make up a plant or animal cell.

Guidelines:

- You may choose to make either a plant or animal cell.

- Your cell **must be 3-dimensional**. This means it needs to have a front, back, and sides. It cannot be a piece of paper with things glued on it. **Your plant cell must be rectangular / your animal cell must be circular.**

- All parts of your cell **must be labeled** clearly in order to receive credit; I suggest using toothpicks and pieces of paper to make little flags.

- Your representations of the **organelles must be similar to the ones seen in your diagrams**: for example, your nucleus cannot be square. Use diagrams for plant and animals cells that we have gone over in class.

- **Be unique and creative**: Paper Mache, yarn, clay, Styrofoam, and anything else appropriate that you can think of, in any combination.

You will use the attached rubric to see which organelles need to be present, accurate, and labeled. You will turn your copy of the rubric when you turn in your 3-D model.

Name: _____

Period: _____

3-D Cell Model Project Rubric

Grading:

You will initially start with a 100 for your project grade. You will lose points for the following items:

- Missing an organelle (deduct 4 points for each organelle)
- Missing a label on an organelle (deduct 4 points for each label)
- Organelle is mislabeled (deduct 4 points for each mistake)
- No name on project (deduct 4 points)
- Plant cell is not square (deduct 20 points) Animal cell is not round (deduct 20 points)
- Project is sloppy (deduct up to 8 points)
- **Project is late (deducted: 10 points per day: after 5 days project grade is a 0)**
- Project is not three-dimensional (deduct 30 points)

Remember: Your project grade is worth 100 points total. It is intended to help you better understand the cell and **improve your grade**. Please take this seriously and turn it in on time.

<u>Organelle</u>	<u>Present</u>	<u>Label</u>	<u>Total</u>
Cell Wall (if plant cell)			
Cell Membrane			
Cytoplasm			
Nucleus			
Nucleolus			
Smooth ER			
Rough ER			
Ribosomes			
Golgi apparatus			
Vacuoles			
Mitochondria			
Chloroplasts (if plant cell)			
Lysosomes (if animal cell)			

General Project Guidelines	Total
No name on project	
Plant cell is not square / Animal cell is not round	
Sloppiness	
Not 3-dimensional	
Late: Date turned in: _____ # of days late: _____	

Final Grade: _____ /100

Comments: