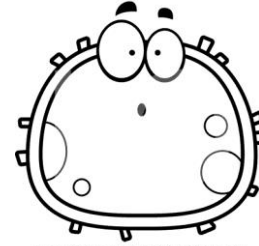


NAME: _____

Period _____

3-D Cell Model Project
(100 points)



Project Assigned: (Plant Cell) or (Animal cell)

Project Due: **Friday, December 18th**

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 turn the project in early. If you decide to, you can receive up to 10 points extra credit on any test grade (Not to exceed a 100). Be sure to write which cell model you are making (Plant or animal)
- Your cell **must be 3-dimensional**. This means it needs to have a front, back, and sides. It can not be a piece of paper with things glued on it. Your plant cell must be rectangular or your animal cell must be circular.
- Project may be edible but, critters in the building have been known to eat projects. (Keep them covered)
- 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.
- The cell should be as accurate as possible. The cell parts should be located where they belong. For example, the nucleus should be bigger than ribosome's and chloroplast should be green.

Materials you may want to use:

- Styrofoam balls
- Craft foam
- Beads
- Yarn
- Pipe Cleaners
- Felt
- Pom Pom balls
- A variety of candy
- Crayola molding clay or foam
- Pillows

You will use the attached rubric to see which organelles need to be present, accurate, and labeled with the function of each organelle included either on the back of your label or on a separate paper (key). You will turn in your copy of the rubric when you turn in your 3-D model. If you print the rubric, you will earn 5 points extra credit for this assignment.

Name: _____ Period _____

Due date: 12/18/15

3-D Plant 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 1 point for each organelle) = 10 total
- Missing a label on an organelle (deduct 1 point for each label) = 10 total
- Missing an organelle function or illustration on the **key** (deduct 1 point for each organelle) = 20 total
- No name on project (deduct 6 points) = 10 total
- Plant cell is not square (deduct 10 points) = 10 total
- Project is sloppy (deduct up to 15 points) = 15 total
- **Project is late (deducted: 10 points per day)**
- Project is not three-dimensional (deduct 25 points) = 25 total

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 on cell</u>	<u>Labeled on cell</u>	<u>Purpose?</u>	<u>Total</u>
1. Cell Wall				
2. Cell Membrane				
3. Cytoplasm				
4. Nucleus				
5. Endoplasmic Reticulum				
6. Ribosomes				
7. Golgi Complex				
8. Vacuoles				
9. Mitochondria (Need 3)				
10. Chloroplasts				

<u>General Project Guidelines</u>	<u>Total</u>
Deductions if...No name on project	
Deductions if...Plant cell is not square	
Deductions for...Sloppiness	
Deductions if...Not 3-dimensional	
Late: Date turned in: _____ # of days late: _____	

Final Grade: _____ /100

Comments:

Name: _____ Period _____

Due date: 12/18/15

3-D Animal 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 1 point for each organelle) = 10 total
- Missing a label on an organelle (deduct 1 point for each label) = 10 total
- Missing an organelle function or illustration on the **key** (deduct 1 point for each organelle) = 20 total
- No name on project (deduct 10 points) = 10 total
- If animal cell is square (deduct 10 points) = 10 total
- Project is sloppy (deduct up to 15 points) = 15 total
- **Project is late (deducted: 10 points per day)**
- Project is not three-dimensional (deduct 25 points) = 25 total

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 on cell</u>	<u>Labeled on cell</u>	<u>Purpose?</u>	<u>Total</u>
1. Cell Membrane				
2. Cytoplasm				
3. Nucleus				
4. Nucleolus			Makes ribosomes	
5. Endoplasmic Reticulum				
6. Ribosomes				
7. Golgi complex				
8. Vacuoles				
9. Mitochondria (Need 3)				
10. Lysosomes				

<u>General Project Guidelines</u>	<u>Total</u>
Deductions if... No name on project	
Deductions if ... Animal cell is not circular	
Deductions for ... Sloppiness	
Deductions if ... Not 3-dimensional	
Late: Date turned in: _____ # of days late: _____	

Final Grade: _____ /100

Comments: