

Cell Project Tic-Tac-Toe

Complete one assignment from each row, meaning three assignments total, relating to cells. Grades will be based on the rubric found on the back of this sheet. You must use this sheet as a coversheet for your project. Any information in your science notebook is available to use, but if you use the internet or other resources for help, you **MUST INCLUDE A LIST OF YOUR SOURCES WITH YOUR PROJECT!** Final Due Date will be _____.

Organelles-labeling	Take photos of things found in nature that correspond with each organelle. Create a poster that has a drawing of a cell at the center and the pictures you took on the outer borders. Make connections between your photos and the organelles you drew and include an explanation of why each picture represents the organelle.	Make a 3-D model of a plant or animal cell. Use whatever materials you like (Styrofoam, wood, clay, rice krispies, cake, etc)... BE CREATIVE! Your model must contain all cell organelles in a way that appropriately represent them. Your model should be labeled or contain a key and should not be bigger than a standard textbook.	Create a "book cover" for your short story/poem that shows the organelles you made into characters in your story OR a small poster to advertise your song that provides a visual for the organelles mentioned in your song.
Organelles-function	Make a cell organelle mind map. Choose 12 organelles. Think of something in real life that is related to the function of the organelle. Draw a picture of the item it is related to and write the relationship on the back. Example-Cell wall is like a building frame, it gives a rigid structure. (Ask to see an example)	Make a list of body parts that serve the same function as each of the organelles. Your list should be in the format of a chart. The first column shows the organelle, the second column is the body part, and the 3 rd column explains how they are related. Example: Cell membrane-skin-keeps things in or out	Make a crossword puzzle using the organelles listed at the bottom of this sheet. Your clues should be in your own words and the answers should be the organelles.
Cell function as a whole	Write a blog or journal entry from the perspective of the nucleus of a plant cell explaining your "coworkers" (the other organelles-at least 11 others) you work with. Write a response to the entry from an animal cell's nucleus, explaining similarities and differences between your own coworkers and the ones the plant cell wrote about.	Create a story about the parts of a cell that a 5 th grader could read. Make the organelles into characters (people) and talk about what kind of job they might have and how they would work together. The stories should be interesting and entertaining with pictures and contain at least 6 of the organelles mentioned below.	Create a poem, song, short story or other writing option about the cell organelles and how they contribute to the cell's survival. The song must contain at least 12 of the organelles listed below with their jobs, have a tune that is easily recognizable (popular or well known), and must be school appropriate.

All Projects should contain information using the following organelles:

Cell membrane	Cell wall	Cytoplasm
Chromatin	Mitochondria	Ribosome
Endoplasmic reticulum	Lysosome	Vacuole
Chloroplast	Nucleus	Nuclear membrane
Nucleolus	Golgi Bodies	

CELL PROJECT RUBRIC:

NAMES: _____

Your points	Category	Excellent (10 points)	Good (8 points)	Average (6 points)	Poor (4 Points)
	Three assignments completed (30 points total)	All Three projects assignments are completed	N/A	Two project assignments are completed	One project assignment is completed
	Accurate information (30 points total)	All information in assignments is well researched and accurate	Most information in assignments is well researched and accurate	Some information is inaccurate or vague	Information is inaccurate
	Presentation (20 points total)	All projects are neat and legible, including pictures and figures. Almost no spelling errors.	One or two parts of the project are poorly organized and messy. Minimal spelling errors	Writing or drawings are not well designed. Many spelling errors.	Projects are poorly constructed and messy.
	Directions Followed (20 points total)	All directions are followed and completed for each assignment	Most directions are followed for each assignment	Some directions are followed.	Many directions were ignored or not followed.
	Total points (100)	Bonus Points: Any part of the project that is particularly impressive or creative (+5)			

Additional Comments:



Time line for cell project:

FINAL PROJECT DUE ON _____

<u>Date</u>	<u>Part of assignment completed</u>	<u>Decisions to be made</u>	<u>Completed (check mark)</u>
	<u>Choose three assignments</u>	<u>How will you split up the work or make time to work together on all parts?</u>	
	<u>Plan out the organelle-labeling project</u>	<u>What will this look like? What organelles will you work with and What comparisons will you make? How will you complete it? What materials will you need?</u>	
	<u>Plan out the organelle-function project</u>	<u>What will this look like? What organelles will you work with and What comparisons will you make? What materials or tools will help with this step?</u>	
	<u>Plan out the cell function- as a whole project</u>	<u>What will this look like? What organelles are you going to work with? What comparisons do you need to make? What materials or tools will help with this step?</u>	
	<u>Make a list of materials needed to complete the project</u>	<u>Who will get each of the materials and when?</u>	
	<u>Complete 1 Project</u>		
	<u>Complete 2 projects</u>		
	<u>Complete 3 projects</u>		