Name:	e: Period: Due Date:							
	Cell City Analogy Project Choices							
_	-	7.LS.1, 7.LS.5)						
	You will be working to create a cell analogy in order to understand cell forms and structures and							
	 the functions each part of a cell performs in order to keep an organism alive. This will also allow you to <u>understand the differences between plant and animal cells</u>. 							
This will also allow yo	ou to <u>understand the</u>	differences between	en plant and animal	<u>cells</u> .				
FOCUS QI	JESTION:							
How does	the function of a	cell's organelles c	compare to anothe	er object				
or thing?		· ·	•					
9	✓ You will compare a cell and how its organelles function to							
	something else whose parts also have similar functions. (Use your							
	DATA sheet.)							
L								
GRADING RUBRIC:								
Project Choice:	4 – Above and	3 – Meets	2 – Meets part	0 – Did not				
	Beyond	requirements	of requirements	meet				
	Requirements			requirement at				
				all				
neat, detailed and colorful								
organelles	(all 14)	(at least 11)	(at least 7)	(less than 7)				
_	(dii 14)	(diledsi ii)	(di ledsi /)					
labeled/represented								
on model/drawing	/ o.ll 1.4\	/ o.t lo o.at 11\	/ o.t. o.o.t. 7\	// a a a Ha ava 7\				
structures	(all 14)	(at least 11)	(at least 7)	(less than 7)				
labeled/represented								
on model/drawing			, , , , _,					
accuracy of organelle	(all 14)	(at least 11)	(at least 7)	(less than 7)				
FUNCTION compared								
to structure FUNCTION								
on drawing/model (3x)	(x3)	(x3)	(x3)	(x3)				
Language	There are few or	Errors are	Errors are	Errors are				
Conventions:	no errors.	occasional.	frequent.	serious and				
word spelling				numerous.				
• capitalization	None of the errors	They do not	They may cause					
punctuationgrammar or word usage	impact the flow of communication.	impede the flow of communication.	the reader to stop and reread part of	They cause the				
paragraphing	Commonication.	communication.	the writing. Flow of	reader stop often to figure out				
• full sentences (no run-on			communication is	writer's meaning.				
or sentence fragments)			impaired.					
7.LS.1provide examples of	eukaryotic organisms			TOTAL				
7.LS.5 Compare and contrast the form and function of the organelles found in plant and /28								
animal cells.								
Organelles and structures to in	nclude:							
□ cell wall	□ chr	romatin	□ Golai	apparatus/Golgi				
cell membrane	☐ ribosomes body			• • •				
cytoskeleton	☐ cytoplasm ☐ vacuole							
nucleus	mitochondria chloroplasts							
☐ DNA	_	doplasmic reticulum	☐ lysosc	·				
_	_	•	<u> </u>					
EXTRA CREDIT:	(2) □flagella (2)							

Cell City: DIRECTIONS AND GUIDELINES

- 1. Research plant and animal cell structures and their functions.
- 2. Use multiple resources and record this on the data sheet.
- 3. There is also a place to plan what you are comparing each organelle to. Save this for when you are done recording ALL of the functions.

Project Choices and Details						
Cell "City"	Collage	ThingLink or Lift-the-Flap Mini Poster				
Create a detailed drawing (on paper; digital doesn't work too well for this project), or a 3D model of this "thing" you are comparing cells to.	Create a collage out of MAGAZINE pictures (do not print from the Internet). a. Your collage must fit on no more than TWO 8.5X11 inch sheets of paper.	 Create a ThingLink or a Lift-the-Flap mini poster (like a ThingLink, except on paper and hand-drawn). 				
You can create a model of anything to KNOW and LIKE! Examples might include: a city, a mall, Hogwarts, a computer, a video game, an amusement park, pool, skateboarding park, Bikini Bottom on Sponge Bob	2. Each picture must represent a part of a cell. They MUST have or represent the SAME FUNCION as the part of the cell to which you are comparing them.	 The central image can be the "thing" to which you are comparing the cell (similar to cell city) OR a "generic" cell image. 				
 It must be neat, detailed, and colorful. If creating a model, please use recycled materials or items you already have at home. (DO NOT SPEND ANY MONEY!!!). 	3. Since this is a collage, your pictures don't need to all relate to the same "thing."4. Give each picture a number. Then create a graphic organizer (such as a data table)	 For each structure in the city or cell, create a "link". a. If the central image is of a cell, the link should be a picture and description of what you are 				
 3. All structures in the drawing or model must be labeled: a. name of structure in the drawing/model b. what the structure represents in the cell c. both structures must have similar functions 	where you label the following: a. The number from the collage. b. What the picture actually is. c. Which organelle or structure the picture represents. d. An explanation of how each picture represents each cell organelle. i. Explain your reasoning clearly.	comparing each cell part to. b. If the central image is a thing or an object, the link should be an image and description of cell part you are comparing that structure to. c. An explanation of how each picture represents each cell organelle. i. Explain your reasoning clearly.				
4. You will turn in the data sheet or create a graphic organizer like a data table to explain how each "thing" in your model represents each cell organelle. a. Explain your reasoning clearly. b. This includes describing the function of the part AND the function organelle as part of your evidence.	 ii. This includes describing the function of the part AND the function of the organelle as part of your evidence. iii. If you turn in your data sheet, add the numbers from your collage to each organelle. 	ii. This includes describing the function of the part AND the organelle as part of your evidence.				
 If you have a better idea for project choice, or an app to use, see me first for approval. (: 						