

Name: _____ Date: _____ Period: _____



WELCOME TO CELL CITY!

Directions: You will be designing a city that reflects the structure and function of the organelles. Relate each organelle to something in a city. Have fun and be creative!

Fill in the functions and then relate each organelle's function to something in a city. Before you begin construction, have your teacher look over it to make sure you are on the right track.

Organelle	Function	What company, place, or object does the organelle resemble in a city?
Cell membrane		
Cell wall		
Chloroplasts		
Cytoplasm		
Cytoskeleton		
Endoplasmic Reticulum - rough		
Endoplasmic Reticulum - smooth		
Golgi complex		
Lysosomes		
Mitochondria		
Nucleus w/ nucleolus	Holds DNA – controls processes	
Ribosomes		
Vacuoles		
Vesicles		

Requirements for your cell city:

1. Give your city a name – your name must be visible on the city.
2. You must label each organelle/city structure with both labels on your project.
3. Your detailed grade requirements are located on the back.

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Cell City Grade Sheet

Criteria	0 points (fail)	3 points (poor)	5 points (average)	7 points (excellent)
Accuracy of organelle city structure - on front	None - 1	2 - 7	8 - 13	All
City structures identified/labeled	None - 1	2 - 7	8 - 13	All
Organelles identified/labeled	None - 1	2 - 7	8 - 13	All
City structures/ organelles present in city	None - 1	2 - 7	8 - 13	All
Construction of city	The city is falling apart and/or very flimsy.	The city is slightly falling apart and/or flimsy.	The city is not falling apart but slightly flimsy.	The city is of sturdy, solid construction.
Creativity	The city has no or very little creativity. It is built of only 1 or 2 materials.	The city has little creativity. It is built with 3 or 4 types of materials.	The city has some creativity. It is built with 5 or 6 types of materials.	The city is a one-of-a-kind project that includes 7 or more types of materials.
Neatness	Sloppy writing, sloppy scissor cutting, excessive tape and/or glue are evident.	Some sloppy writing, scissor cutting, excessive tape and glue may be evident.	Overall neat writing/typed print and scissor cutting, Glue/tape has not been overused.	Overall very neat. Outstanding writing/typed print, neat scissor cutting, etc.
City name	None	-	A general name is created that does not tie together the concept of a city/cell.	A unique name is created that ties together the concept of a city/cell.
	0 points [failure]	6 points [poor]	10 points [average]	14 points [excellent]
Table complete on reverse side	None - 1	2 - 7	8 - 13	All

Participation & Work Ethic _____ / 5

Total: _____ / **75** =

