

Cell Analogy Project

Assignment: Draw a picture of a scenario that represents the parts of a cell: city, football game, home, mall, ect. Include a list of analogies for each cell part listed and the organelle that it represents. You will be creating a graphic organizer of your analogies and functions. Use the general formula below for each cell organelle.

General formula: (organelle) = (analogy)
 (organelle function) = (analogy function)

Examples List:

Nucleus = Principal
 Controls the activities of the cell = Controls the activities of the school

Chromosome = School rules
 Genetic information = Information for the students and teachers

Lysosome = Custodians
 Break down waste and other materials in the cell = Clean up the school

Organelles Required: Check off organelles as you complete them

Plant Cell:

- | | | |
|--|--|--|
| <input type="checkbox"/> nucleus | <input type="checkbox"/> ribosome | <input type="checkbox"/> lysosome |
| <input type="checkbox"/> chromosome | <input type="checkbox"/> golgi apparatus | <input type="checkbox"/> cell membrane |
| <input type="checkbox"/> cytoskeleton | <input type="checkbox"/> vacuole | <input type="checkbox"/> cell wall |
| <input type="checkbox"/> endoplasmic reticulum | <input type="checkbox"/> mitochondria | <input type="checkbox"/> chloroplast |

Cell Analogy Grading Rubric:

Component:	Possible Points	Earned Points
Pictures <ul style="list-style-type: none"> • Appropriate and clear analogy pictures for each cell organelle • Organelle name listed for each analogy picture • All organelles fit within one scenario (city, school, sports event, ect.) 	12 12 4	
List of Analogies <ul style="list-style-type: none"> • Includes 12 appropriate analogies – organelle name (1pt), analogy (1pt), and both functions listed (4pts) 	72 (6 pts each)	
Total:	100	