

EXAMPLE

Analogy Project (Summative Assessment)

Group: _____

For the last few weeks we have been discussing the parts of typical plant and animal cells. We have watched a video and read several sources on the structures of the cell and the function that each of those structures performs within the cell. During our reading and note taking, we have focused our attention on developing analogies that help us understand the structure (how it is made) and function (what it does) of the parts of a cell. In this activity, your task is to develop an analogy project that helps to explain the parts of a cell and how they function.

NOTE: Use the scoring rubric as a guide when designing your project and assigning levels of effort to different aspects of the project.

1. Decide on a cell analogy. A cell is like a/an TREE.
2. List the parts of the cell and their corresponding analogy.

Parts of the Cell	Analogy
Cell membrane	Bark because it lets stuff in and out
Cytoplasm	Is the meat of the tree where everything is suspended
Endoplasmic Reticulum (ER)	The xylem and phloem are the transporters
Ribosomes	
Golgi Bodies/Complex	
Vacuole	The roots are vacuoles because they store stuff
Lysosome	
Mitochondrion	Leaves are mitochondrion because they make energy
Nucleus	Bud is nucleus because it controls how the plant grows
Nuclear Membrane	
Nucleolus	
Chromatin	
Mictotubules/Microfilaments	
Plant Cells Only!!!	
Chloroplast	
Cell Wall	

3. VISUAL: Using the available resources (drawing paper, access to PowerPoint and online project interfaces, etc), illustrate your analogy and label its parts with *both* the real name and its' corresponding analogy.
4. TEXTUAL: In the project, explain your analogy in a form appropriate to your chosen project format that describes the parts of the cell and explains how your analogy represents its function.