

Cell Classroom

Organelle	Item/Person	Function
Nucleus	Teacher	Control center of the cell; has the instructions the cell needs to function
Cell Wall	Door Frame (Inside of walls)	Provides structure for the cell
Cell Membrane	Wall	Supports the outside of the cell
Cytoplasm	Air (hang off the lights in room)	What the organelles “float” in
Mitochondria	“Light” person	Responsible for producing the energy (light) for the cell or the projector
Vacuoles	File Cabinet, Trash Can, or Student Desk	Used to store materials, water, or wastes
ER or Endoplasmic Reticulum	3-4 students	Responsible for transporting materials from one part of the cell to the other
Lysosomes	3-4 students	Responsible for cleaning up the cell
Ribosomes	3-4 students	Produces proteins for the cell (passes out treats)

Note: Adjust the number of lysosomes, ERs, or ribosomes to adjust to the size of your class.

Challenge: What items/people in the school building could be used to represent each organelle?

NUCLEUS

CELL WALL

CELL MEMBRANE

CYTOPLASM

VACUOLE

Mitochondria

RIBOSOME

RIBOSOME

LYSOSOME

**ENDOPLASMIC
RETICULUM**

**ENDOPLASMIC
RETICULUM**

LYSOSOME