

Cell Parts Vocabulary

Nucleus
Nuclear membrane
Chromatin
Cell membrane
*Cell wall
Cytoplasm
Ribosomes
Endoplasmic Reticulum (E.R.)
Golgi body
Lysosomes
Mitochondria
Vacuole
*Chloroplast

*found only in plant cells

Cell Factory Rubric

The rubric below includes the criteria for successful performance.

Commendable

- Cell Factory model is complete in a shoebox covered in white paper
- All of the cell/factory parts are labeled correctly
- All of the cell/factory parts are represented using appropriate materials
- All of the factory parts and functions are listed on the Cell Factory Blueprints

Acceptable

- Cell Factory model is complete in a plain shoebox
- At least nine of the twelve cell/factory parts are labeled correctly
- At least nine of the twelve cell/factory parts are represented using appropriate materials
- At least nine of the twelve parts and functions are listed on the Cell Factory Blueprints

Needs Revision

- Cell Factory model is incomplete; not in a shoebox
- Less than nine cell/factory parts are labeled correctly
- Less than nine cell/factory parts are represented using appropriate materials
- Less than nine parts and functions are listed on the Cell Factory Blueprints

Students who do not score acceptable or commendable need feedback and additional time to show mastery.

Name _____
Partner's Name _____
Factory Name _____

Cell Factory Blueprints

Cell Part	Factory Part	Function
1. <u>Nucleus</u>	_____	_____
2. <u>Nuclear membrane</u>	_____	_____
3. <u>Chromatin</u>	_____	_____
4. <u>Cell membrane</u>	_____	_____
5. <u>Cell wall</u>	_____	_____
6. <u>Cytoplasm</u>	_____	_____
7. <u>Ribosomes</u>	_____	_____
8. <u>Endoplasmic Reticulum</u>	_____	_____
9. <u>Golgi body</u>	_____	_____
10. <u>Lysosome</u>	_____	_____
11. <u>Mitochondria</u>	_____	_____
12. <u>Vacuole</u>	_____	_____
13. <u>Chloroplast</u>	_____	_____

Cell Model Sample Ideas

<u>Cell Part</u>	<u>Factory Part</u>	<u>Materials Ideas</u>
Nucleus	Boss' office	toy house, small box
Nuclear membrane	the walls of the office	simply label the outside of office
Chromatin	blueprints to factory product	small sketches inside office
Cell membrane	security guard/gate	toy man/woman; make a gate
Cell wall	outer wall of factory	the shoebox is the wall
Cytoplasm	factory floor	simply label/design the floor
Ribosomes	the product made	candy; buttons; sequins; beads
E.R.	conveyor belt	ribbon; licorice; string; masking tape
Golgi body	packaging machine	small box straddling conveyor belt
Lysosomes	garbage/recycling bins	small box or block
Mitochondria	electrical switch/room	light switch; light bulb
Vacuole	storage/supply room	small box or block
Chloroplast	cafeteria or vending	toy table; Tic-Tac box