

Cells Choice Board Assignment 3

<p>CELL CITY:</p> <ul style="list-style-type: none"> Design a colorful city that represents a cell. You will compare the parts of the city to the organelles of a plant or animal cell. Decide what part of the city each organelle represents. On a piece of poster paper or computer paper, draw the layout of your city in color and with labels. Go over all your labels in pen. Come up with a creative city name. Attach a piece of paper to your city that explains why each part of the city represents a certain organelle. Here is an example of a explanation sentence: “The <u>city hall</u> represents the <u>nucleus</u> because it is the control center of the city. This is similar to a nucleus’ job, which is to control a cell.” Keep in mind the part of the city’s job should be similar to the job that the organelle does for the cell. An explanation of this should be included in your sentences. 	<p>BUILD or BAKE a CELL:</p> <ul style="list-style-type: none"> For this project, you will build or bake a model using whatever materials you want to represent all the organelles in a plant cell. You must have an object or food item in your model to represent every organelle in your cell. Pay attention to where they go in your model, what they look like, their size, etc. They should be representative of the real organelles in a cell. Attach a piece of paper to your model explaining what item represents each organelle. Here is an example of an explanation sentence: “The large cookie in the middle of my dish represents the nucleus because it is a large organelle in the middle of the cell. The nucleus is the control center of the cell and also stores DNA (which are the sprinkles on my cookie)!” To demonstrate your knowledge of what the organelles DO, please include their function in your sentences. 	<p>PAPER BAG PLANT CELL:</p> <ul style="list-style-type: none"> Obtain a brown paper lunch sack from the teacher. Use a single-hole punch to punch holes throughout the bag to show that the cell membrane is permeable. All 12 organelles must be included, decide what items you could place in the bag to represent each cell organelle. Gather the items and add them to the bag. If you do not have all of the actual items available, you can print a picture the item and place it in the bag. Attach a written explanation about why you chose each object to represent each organelle. <i>Hint: the cell wall must be showing on the outside of the paper bag.</i>
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Checklist for Cells Choice Board

Cell City

- All 12 organelles are accurately represented _____/18 pts
- Accurate explanation of each organelle and city structure _____/18 pts
- City is colorful & neat _____/12 pts

Build or Bake a Cell

- All organelles are present in model _____/12 pts
- Explanation of each organelle & object included _____/12 pts
- Organelle & function are accurately explained _____/24 pts

Paper Bag Plant Cell

- All objects or items are included for all 12 organelles _____/12 pts
- Explanations are included for all 12 objects _____/12 pts
- Explanations for each object accurately describe the organelle _____/24 pts

I chose to complete the

for Assignment 3 of my
Cells Choice Board.