Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cell Project**

**Learning Target**: Students will create a model of a cell, labeling each part, and designing a key with the definition/function of each part.

Your assignment is to create a fantastic, colorful, and accurate model of a cell. It may be a poster, 3D model, edible, or any creative way you want that exhibits knowledge of cytological anatomy (the parts of a cell and their jobs). The cell may be either a plant or an animal

This website gives you great ideas on how to create a cell model:

http://www.kathimitchell.com/cells.html

This power point has images of fantastic projects:

<https://compcolts.wikispaces.com/file/view/Incredible+Cell+Project+Ideas.pptx>

Animal cells must have the following organelles:

1. cytoplasm

2. nucleus

3. vacuole

4. mitochondria

5. cell membrane

Plant cells must have the following organelles:

1. cytoplasm

2. nucleus

3. vacuole

4. mitochondria

5. cell membrane

6. chloroplast

7. cell wall

For extra credit, research and include the following in your project: Golgi complex, ribosomes, chromatin, smooth ER, rough ER, and lysosomes.

Don’t forget to include a **key** with your creation. **Define or explain the function** of each cell part on your key. This project counts as a test grade. Your grade is based on cell accuracy, completeness, creativity, neatness, and effort.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number: \_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_ Animal Cell \_\_\_\_\_\_\_\_\_\_ Plant Cell

**Cell Project Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Accurately Displayed on Cell | Accurately Listed on Key | Accurate Definitions or Functions | Comments |
| Cytoplasm (10 pts) |  |  |  |  |
| Nucleus- (10 pts) |  |  |  |  |
| Vacuole- (10 pts) |  |  |  |  |
| Mitochondria- (10 pts) |  |  |  |  |
| Cell membrane- (10 pts) |  |  |  |  |
| Chloroplasts- (10 pts)  (plant cell only) |  |  |  |  |
| Cell wall- (10 pts)  (plant cell only) |  |  |  |  |
| Extra credit parts |  |  |  |  |
| Neatness- (10 pts) |  |  |  |  |
| Creativity- (10 pts) |  |  |  |  |
| Effort- (10 pts) |  |  |  |  |
| Completed on-time  Yes/No  -10 pts per day |  |  |  |  |
| Presentation- (10 pts) |  |  |  |  |

Score \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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