**Cell Poster/3D Model Project**

Choose either the animal or plant cell and create a poster or model to depict the structure of the cell. The starred (\*) organelles require that you create several of these structures. Make sure your organelles are appropriate sizes, and include enough detail to be able to accurately depict each organelle (ex: Draw folds in the mitochondria and penny stacks in chloroplast). Beside/on each organelle, you should label it with the corresponding number provided below in the chart. On a separate sheet of paper, write the number, name, and function of the particular organelle in complete sentences. Your functions should be typed.

If doing a 3D model, try to use different colors/materials for each organelle. If doing a poster, your cell should be created by cutting out the organelles from construction paper and gluing them on the poster and/or using markers and colored pencils. For each organelle, try to use a different color or type of marker/paper/colored pencil. You MUST use poster board. It needs to be COLORFUL and NEAT for full credit!

**Animal Cell**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Organelle** | **Present** | **Label** | **Function** | **Total** |
| 1. Cell Membrane |  |  |  |  |
| 2. Cytoplasm |  |  |  |  |
| 3. Nucleus |  |  |  |  |
| 4. Nucleolus |  |  |  |  |
| 5. Nuclear Membrane |  |  |  |  |
| 6. Rough ER |  |  |  |  |
| 7. Smooth ER |  |  |  |  |
| \*8. Ribosomes |  |  |  |  |
| \*9.Golgi Apparatus |  |  |  |  |
| \*10. Mitochondria |  |  |  |  |
| \*11. Lysosomes |  |  |  |  |
| \*12. Vacuoles |  |  |  |  |
| 13. Centrioles |  |  |  |  |

**Plant Cell**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Organelle** | **Present** | **Label** | **Function** | **Total** |
| 1. Cell Membrane |  |  |  |  |
| 2. Cell Wall |  |  |  |  |
| 3. Cytoplasm |  |  |  |  |
| 4. Nucleus |  |  |  |  |
| 5. Nucleolus |  |  |  |  |
| 6. Nuclear Membrane |  |  |  |  |
| 7. Rough ER |  |  |  |  |
| 8. Smooth ER |  |  |  |  |
| \*9. Ribosomes |  |  |  |  |
| \*10. Golgi Apparatus |  |  |  |  |
| \*11. Mitochondria |  |  |  |  |
| \*12. Chloroplast |  |  |  |  |
| 13. Central Vacuole |  |  |  |  |

|  |  |
| --- | --- |
| Cell is correct shape (round-animal or square-plant) |  |
| Neatness |  |
| WOW factor (colorful, creative, eye-catching) |  |
| Late: Date turned in:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # days late:\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**Rubric**

You will initially start with a 100 for your project grade. You will lose points for the following items:

* Missing an organelle/not appropriate number of certain organelle (deduct 5 points each)
* Missing a label on an organelle (deduct 5 points each)
* Missing a function (deduct 5 points each)
* Organelle is mislabeled (deduct 5 points each mistake)
* No name on project (deduct 4 points)
* Plant cell not square, animal cell not round (deduct 15 points)
* Project is sloppy (deduct up to 10 points)
* Project is late (deduct 10 points per day late; project grade = 0 after 5 days)
* Poster not on poster board (see me if you need some!—deduct 10 points)

**Project Comments:**