**You will be making an analogy project to show the functions of the organelles in the cell and comparing them to real world items. You can make a children’s book, a music video, an illustrated poster, a travel brochure, a diorama, etc. You may come up with a product yourself, once it is approved by the teacher and is not a PowerPoint.**

1. Choose either a plant or animal cell. Below are the organelles required to be included in your project:

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| --- | --- |
| **Plant Cell** | **Animal Cell** |
| Cell membrane | Cell Membrane |
| Nucleus | Nucleus |
| Cytoplasm | Cytoplasm |
| Mitochondria | Mitochondria |
| Golgi Body | Golgi Body |
| Endoplasmic Reticulum | Smooth Endoplasmic Reticulum |
| Ribosome | Ribosome |
| Cell Wall | Lysosome |
| Chloroplast | Vesicle |
| Vesicle | Rough Endoplasmic Reticulum |

1. Identify the function of each organelle.
2. Select an everyday object that has a similar function as each of the cell organelles required in your chosen cell.
3. You must **write an analogy** to show the similarity between cell organelle and the everyday object.
   1. You must include your justification. [Example: The nucleus is like a brain **because** it controls and coordinates the activities of the cell in the same way the brain controls and coordinates the activities of the body.]
4. Create your **visual analogies**.
   1. Each organelle in your project should have at least two visual- an image of the specific cellular organelle and an image of the object that is selected with a similar function.

What is an analogy?

Definition: is a comparison between 2 things that are mostly different but share some traits.

Example: Moon is to the night as sun is to the day.

So in your project, you would want to use the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to the cell as

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

On this page you will brainstorm and research your analogies.

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| --- | --- | --- | --- |
| **Cell Organelle** | **Function of Organelle** | **Object for Analogy** | **Justification for Analogy** |
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Project Timeline and Check-List

Day One:

* Chose if your project will be on a plant or animal cell.
* Complete the function portion of the chart for each of the 10 organelles.
* Analogy object for each organelle

Teacher Sign Off: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Day Two

* Analogy and the justification as to why it goes with each organelle.
* 10 pictures of the required organisms
* 10 pictures of the analogy objects

Teacher Sign Off: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Day Three - four

* Visual of project has been started

Teacher Sign Off: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Day Five:

* Final product was turned in.

Teacher Sign Off: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

