|  |  |  |  |
| --- | --- | --- | --- |
|  | FUNCTION | REPRESENTED BY | REASON USED |
| CELL MEMBRANE |  |  |  |
| CYTOPLASM |  |  |  |
| CELL WALL |  |  |  |
| NUCLEUS |  |  |  |
| MITOCHONDRIA |  |  |  |
| VACUOLE |  |  |  |
| CHLOROPLAST |  |  |  |
| CHROMOSOMES |  |  |  |

**CELL IN A BAGGIE project**

It can be hard to visualize the structure of a cell, but this activity will make it easier since you will BUILD one!

**Lesson objective**:

You will identify the parts of a cell, and will describe their function/job. You should also have some fun being creative and your junk drawer will be cleaner too!

**Materials:**

A one quart zippered plastic bag, one cup of water, corn syrup or clear hand dishwashing liquid, a pile of small, miscellaneous junk such as marbles, very small hardware, and other objects

**Lesson steps:**

1. Spend some time learning about cells. We did this in class. Refer to your journal, our website, and/or our textbook.

2. Have your Cell in a Baggie Table ready to record your notes.

3. Look through your junk drawer or pile. Find a piece to represent each of the parts of a cell. Think of a reason why it makes you think of that part. For instance, chloroplasts could be represented by a green marble, because chloroplasts give plant cells their green color. Ribosomes (which is another part of the cell) might be shown as screws, because they build proteins. Add the name of the part and the reason why it is like the organelle to your chart. Be sure to include what the cell part's function is.

4. Put the chosen parts into the plastic bag. When you have an object to represent all of the cell parts that you've chosen to study, dump in water, corn syrup or clear dishwashing liquid to represent the cytoplasm. This is your cell.