

## Making Three Dimensional Plant and Animal Cells

**Purpose:** The purpose of this assessment is to provide students with hands-on activity which will enhance their understanding of the 3-D characteristics of cells while reinforcing knowledge of plant and animal cell structures.

**Objectives:**

1. Compare and contrast structures of the 3 dimensional aspect of the cell.
2. Identify the various parts of plant and animal cells
3. Demonstrate and understand the 3 dimensional aspects of cell structure.

**Procedure:** Within your group, decide what structures you can use to represent the various structures of both plant and animal cells. Some suggestions are provided. Originality is appreciated. Each group is responsible for supplying additional materials if wanted.

**Materials Provided:** Playdoh – saran wrap – pie plates

**Cell Structures and possible materials:**

#	Cell Structure	Representative Material Chosen
1.	Cell membrane	
2.	Cell Wall	
3.	Cytoplasm	
4.	Nucleus	
5.	Nuclear Membrane	
6.	Ribosomes	
7.	Mitochondria	
8.	Vacuole	
9.	Lysosome	
10.	Golgi body	
11.	Endoplasmic Reticulum	
13.	Chloroplast	

Construct the cell using the materials brought by members of the group. Start by laying the plastic wrap on a smooth surface and placing the play-doh on the wrap - flatten like a pancake and place the other structures. \*\* If you are constructing a plant cell, you will have to place the cell wall material first.

When this is completed you have a two dimensional structure. Take a picture with Mrs. Gannon's camera. The picture will then be printed and will become part of your unit exam.