Name/s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Playdoh Cells

Biology

**Introduction:**

Playdoh is a creative and versatile tool that can be used in the classroom. Playdoh can be used to create both a plant and an animal cell. Students will use several different colors to make the organelles for each cell. The organelles will be color coded to help identify the structures. The students will use the color code below to help create each organelle. Along with colors, each organelle will have a specific shape. The shapes will resemble that of the actual organelles. A cell diagram will be completed and used by each student throughout the activity.

**Objectives:**

* You will know and be able to identify the organelles of both plant and animal cells.
* You will understand the function of each organelle.
* You will be able to create both a plant and an animal cell using playdoh.

**Materials:**

* 11 different colors of Playdoh
* plastic knife
* Cell diagram/organelle chart

**Procedures:**

1. Use the playdoh provided to construct an animal cell (you will need to use the cell diagram and/or book to get an idea of how each organelle should look). Teacher initials \_\_\_\_\_
2. Use the playdoh provided to construct a plant cell (you will need to use the cell diagram and/or book to get an idea of how each organelle should look). Teacher initials \_\_\_\_\_

**List the 3 changes you must make for this transition:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Note**: The colors for each organelle are listed below. The cytoplasm is white and should be used as the base for the cells. The other structures will be placed onto (not squished into) the white portion. No credit will be received for this activity if you do not have teacher initials.

**Color Coding:**

* Cell wall purple
* Cell membrane blue
* Golgi Apparatus orange
* Mitochondrion pink
* Chloroplast green
* Nucleus brown
* Nucleolus turqoise
* ER red
* Ribosome black
* Cytoplasm white
* Vacuole yellow