

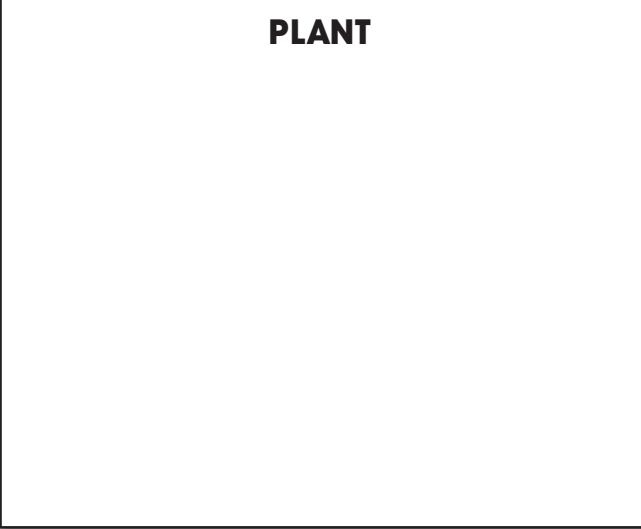


# Plant and Animal Cells

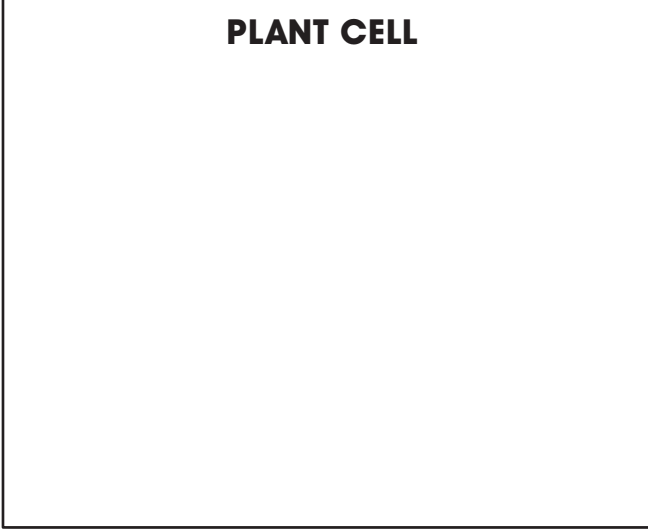


1. In the box on the left, draw a picture of a **PLANT** that you have taken care of in the past. This could be a plant in your classroom or at home. In the box on the right, draw what you think a **PLANT CELL** might look like. Use your imagination!

**PLANT**



**PLANT CELL**



2. Complete each sentence with a term from the list. Use a dictionary to help you.

cell wall

vacuole

plastid

centriole

lysosome

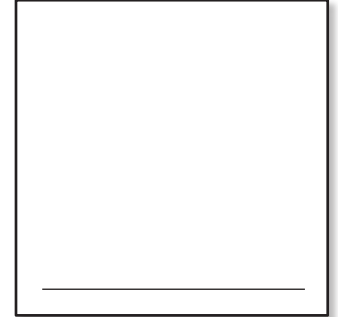
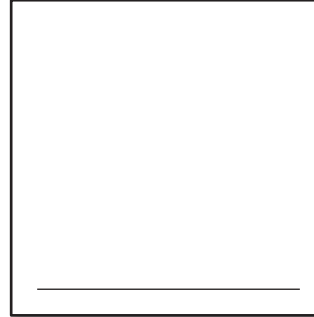
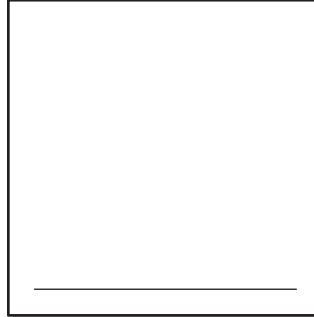
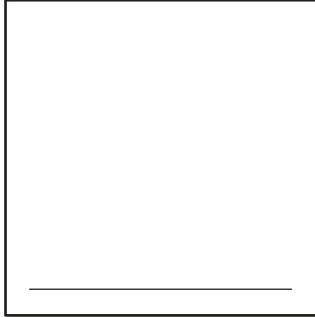
- a) A \_\_\_\_\_ is a round organelle in an animal cell. In it are digestive enzymes.
- b) The outside covering of a plant cell is called the \_\_\_\_\_.
- c) A \_\_\_\_\_ is a compartment in a plant cell. It is surrounded by a membrane and is filled with fluid.
- d) A structure in an animal cell that lies very close to the center of the nucleus is called a \_\_\_\_\_.
- e) A specialized structure in a plant cell that stores food is called a \_\_\_\_\_.



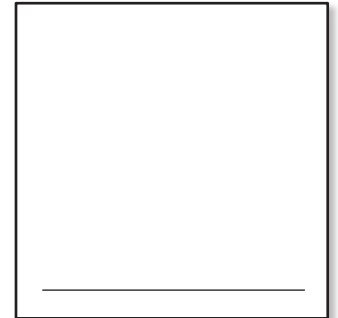
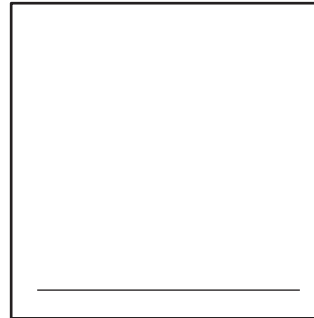
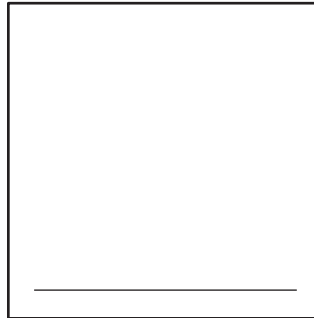
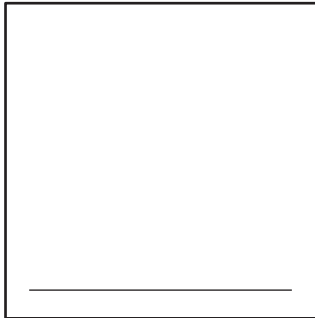
# Diffusion and Osmosis



1. In the squares below, draw pictures of things that you think **HUMANS** need to stay alive. Write your answers on the lines in the squares.



2. In the squares below, draw pictures of things that you think **PLANTS** need to stay alive. Write your answers on the lines in the squares.



3. Complete each sentence with a word from the list. Use a dictionary to help you.

**osmosis****Diffusion****permeable**

- a) \_\_\_\_\_ is the process in which something spreads throughout something else.
- b) Something is \_\_\_\_\_ if it allows liquids or gases to pass through.
- c) In \_\_\_\_\_, molecules pass through a semi-permeable membrane until there are equal amounts of the molecules on both sides of the membrane.



# Sculpt a Plasticine Cell!



We have learned that even though all cells are different, they have some parts in common. There are three parts that all cells have in common.

Do you remember what they are?

## CLUES...

1. The outside covering that holds all parts of the cell in place is called... a **cell membrane**.
2. The dark part located in the middle of the cell (the “brain” of the cell) is called... a **nucleus**.
3. The jelly-like substance that fills in the inside of a cell, where all the cell’s activities take place is called... **cytoplasm**.

### FOR THIS ACTIVITY, you will need:

- 3 different colors of plasticine
- 3 toothpicks
- small pieces of paper
- tape

## STEPS:

1. Use plasticine to **sculpt** what you think a cell would look like based on the three cell parts described above. Use a different **color** for each cell part. The cell should be **at least** the size of your hand.
2. Once you have finished sculpting your cell, place the toothpicks in the plasticine. You will use them as markers for the different cell parts.
3. On a small piece of paper, write down the cell part. “Flag” it by taping the paper label to the toothpick.

When you are finished, someone should be able to look at your plasticine cell and see the three different parts labeled. Have fun sculpting!