

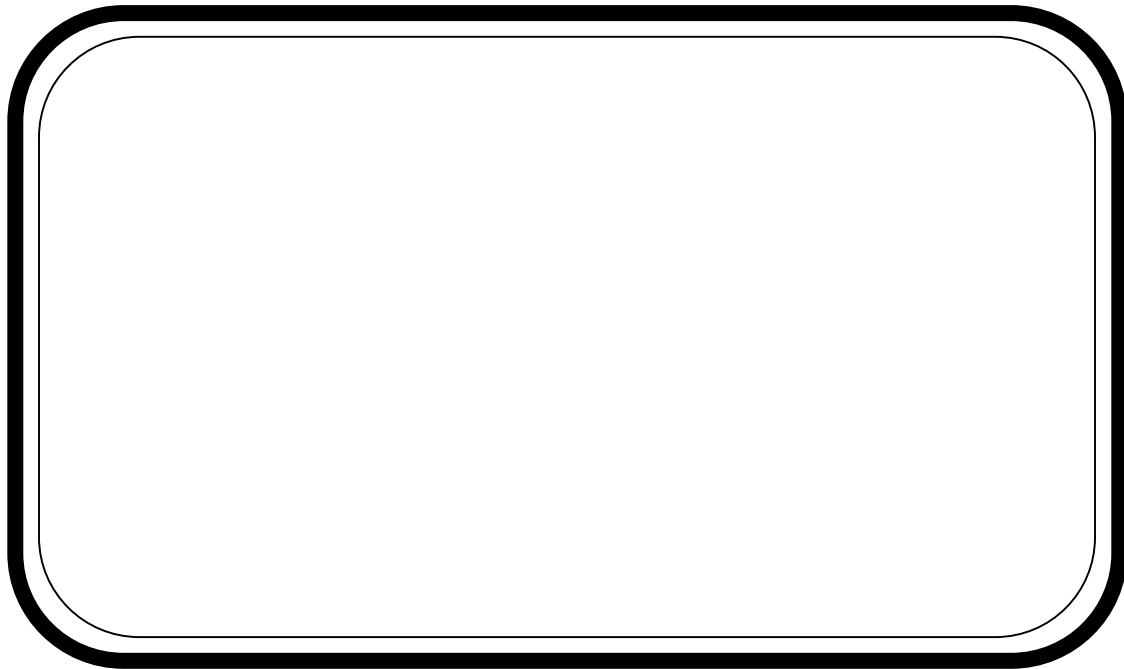
CELLS:

NAME _____

Use the organelle list below to complete the 2 activities:

1. Describe the function of each organelle in 3 words or less.
(NO MORE THAN 3 WORDS!)
2. Draw and label the 11 organelles on the plant cell.

ORGANELLES:	FUNCTION: NO MORE THAN 3 WORDS
1. CELL MEMBRANE	
2. CYTOPLASM	
3. MITOCHONDRIA	
4. RIBOSOME	
5. ENDOPLASMIC RETICULUM	
6. GOLGI APPARATUS	
7. LYSOSOME	
8. NUCLEUS	
9. CELL WALL	
10. VACUOLE	
11. PLASTID	



PLANT CELL

What 3 organelles are found in plant cells but not found or greatly reduced in animal cells?

Cells: “Things to think about?”

1. Would a small or large surface area be better for a cell? Why?
2. What would be more efficient a multicellular organism with trillions of small cells or millions of larger cells?
3. What might be an advantage of a red blood cell being round and concave?
4. What might be an advantage of a plant cell having a cell wall?
5. What might be an advantage of a plant having cells that are rectangular and fit together like bricks of a building?
6. Which type of cell is more complex – Prokaryote or Eukaryote?
7. Which type of cell would more likely to be used in genetic engineering – Prokaryotic or Eukaryotic?
8. What would be two advantages to using this type of cell in genetic engineering?
9. Are all eukaryotic cells exactly the same? Why?

Choose from your “Organelle List” for question 10-15.

10. A human muscle cell must produce energy at a rapid pace. What organelle might you expect to be very abundant in human muscle cells?
11. Plant cells have no bones or muscles yet they are able to “stand up” what organelle would be very large and noticeable in many plant cells?
12. Special white blood cells must digest foreign bacteria. What organelle might be very abundant in these white blood cells?
13. Pancreas cells may produce a variety of enzymes. In order to secrete what has been produced you might expect pancreatic cells to have an abundance of what organelle?
14. Probably the most noted organelle missing in prokaryotic cells compared to eukaryotic cells is the lack of a?
15. What organelle found in many plant cells (Never in animal cells) would be lacking in an onion cell (The part of the onion we typically eat)?