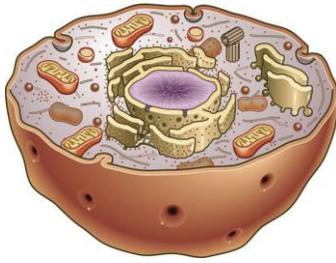


3-D Model Cell Project

- Follow all directions to create a 3-D cell project that will be done individually or with 1 partner, outside of the classroom. The project is worth 50 points, and will be graded on neatness, *creativity*, and **ACCURACY**.
- You will decide to make a plant cell or an animal cell. Be sure to include and label the organelles listed in the columns on the back of this sheet. Typed labels do look much nicer than handwritten labels!
- Make sure that you use a different 3-D material to represent each type of organelle. For example, if you use tiny M & M's to represent ribosomes, then they cannot be used to represent a different organelle.
- If an organelle occurs more than once in cells, then it should be represented more than once in your cell model. For example, there should only be one nucleus in your model, and there should be numerous ribosomes!
- Feel free to use your cell packet or your science reading packet(it's online on my website) to help with organelle accuracy. Above all, BE CREATIVE and HAVE FUN with this assignment!

Details

- Students will make a 3-D model of a cell on a poster, of either a plant or an animal cell. **If you wish to buy items that would enhance your project, that is fine, however, you can probably find all of the items you need lying around home!**
- Find some tag board or cardboard (approximate size 22 inches x 28 inches) to mount the project on.
- Just about anything can be used to represent organelles. Rubber bands, string, seeds, noodles, buttons, puff paint, candy, fabric, colored paper, small crackers, teddy grahams, pretzels, etc., are just a few examples of things that have been used. Check out the junk drawer at home and use your imagination!
- **If you choose to work with a partner, you must have one of your parents sign the parent signature line on the bottom of the back side of this page. Please turn this page in with your project.**



Typical Animal Cell

Be sure to include and label the following animal cell organelles:

- Cell Membrane _____
- Cytoplasm _____
- Nucleus _____
- Nuclear Membrane _____
- Chromosomes _____
- Nucleolus _____
- Endoplasmic Reticulum (Label the kind) _____
- Ribosomes _____
- Vacuoles _____
- Lysosomes _____
- Golgi Complex _____
- Mitochondria _____



Typical Plant Cell

Be sure to include and label the following plant cell organelles:

- Cell Wall _____
- Cell Membrane _____
- Nucleus _____
- Nuclear Membrane _____
- Chromosomes _____
- Nucleolus _____
- Endoplasmic Reticulum (Label the kind) _____
- Ribosomes _____
- Large Water Vacuole _____
- Golgi Complex _____
- Mitochondria _____
- Chloroplasts with Chlorophyll (make these green) _____

As you complete your cell project, check off each organelle in the appropriate space so you don't forget to include any!

If you are working with a partner, you must have your parent sign in the following area. **Please sign on the line provided signifying that your son/daughter shared equally in the work on this 3-D cell class project.**

Name of student(s): _____,

Name of parent: _____ Date: _____

Due Date for this Project is: Monday, January 29th