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Biology: _____
Date: _____

Unit IV
Biology – Cells
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IV

Animal Cell Construction

This project can be done one of two ways: Glue as you cut, or cut all of the pieces out and then glue. You are responsible for keeping track of all of your organelles once you cut them out.

Use a pink sheet of paper to represent the cell itself (and the cytoplasm that fills it). Since we are modeling an animal cell this piece of paper should be cut in an irregular shape that is roughly spherical. Use the diagrams on the back of this page as patterns for the organelles. You should include one of each organelle in your model.

- Use a green marker to outline your cell. This will represent the cell membrane.
- Cut a red circle that is 7 cm in diameter to represent the nucleus.
- The nucleolus is a black circle that is approximately 2.5 cm in diameter.
- Place a number of pieces of white chromatin in the nucleus of the cell but not in the nucleolus.
- The endoplasmic reticulum should be placed adjacent to the nucleus. Use dark blue.
- The mitochondria are dark pink. There can be 2 or 3 of these. Include the “s” design on the oval.
- Use a black marker to trace the outline of the nucleus. This will indicate the nuclear envelope.
- Use a red marker to place small red dots (about the size of this **O**) on the surface and around the edges of the endoplasmic reticulum. These represent the ribosomes.
- Cut the golgi apparatus from orange paper.
- The centrioles should be cut from green paper.
- Several of the microtubules cut from yellow paper can be placed all around the cell.
- Lysosomes are circles and should be just a bit larger than the ribosomes (about 1.5 cm in dia.)
- Cut vacuoles from light blue paper. Since this is an animal cell they will be small – 2 cm in dia. and irregularly shaped.

When the cell is completed, use a separate sheet of paper to list each of the organelles that appear on this page in bold underlined italics and give the function for each.

Cell Part Worksheet

