Biology Quiz Review for Lessons 11-14

Use your Student Activity Sheets, Lab Handouts, and Model Tracker to answer the following questions as you prepare for the Quiz.

1. Draw an animal and a plant cell below with the correct shape: Label the following structures in your cells. The structures could be in one cell or the other, or in both cells. Structures: Nucleus, Cell wall, Cell membrane, Chloroplast, Cytoplasm, Mitochondria.

   Animal Cell                                      Plant Cell

2. Give evidence, and reasoning for the Claim: Plants cells are better at conducting photosynthesis than human cells.

3. To the right of the gummy bear, draw what the gummy bear would look like being placed in tap water? Also, use the terms: hypotonic, hypertonic, particles, and show arrows to indicate the movement of water in or out of the solution.

4. Draw a very detailed model and follow all of the instructions below:
   a. Write out the equation for photosynthesis in plants. (include light)
b. Draw a large model that includes the following: Tree, Human, Leaf, CO$_2$, H$_2$O, Light, Glucose, O$_2$, Chloroplast, Stoma, Roots, Soil, Water in the Soil.

c. Arrows are needed to show the direction of gases, liquids, light, etc.
d. Indicate where the stoma are located on the leaf. Use arrows to show gases going in and out.
e. Draw an enlarged chloroplast in a leaf and show all the inputs and outputs. (Look at your equation if you need help)
f. At the bottom of the page, explain how plants are useful in taking carbon dioxide out of the air and lowering CO$_2$ levels.

**EQUATION for PHOTOSYNTHESIS:**