## **3D Cell Model Instructions**

### Your project must have: I) a 3D MODEL and II) a KEY to the cell parts

# I. MODEL – Make a 3 dimensional model of a cell (choose plant or animal). <u>SHOW</u> all parts listed (see below) and <u>NUMBER</u> all parts.

- ➤ Use common materials such as Styrofoam, cardboard, wood, paper, play-dough, macaroni, dry cereal, string, buttons, pipe cleaners, beads, yarn, etc. Be creative, you don't need to spend money to make the cell model.
- > Do not use JELLO, edible fruit or vegetable, or anything that will spoil or spill.
- Number all parts.
- Make sure parts and numbers are **securely** attached to your model.
- ➤ Cell model must be 3-D, it cannot be flat like a poster.
- > Do not use pins or anything sharp.
- > PUT YOUR NAME & PERIOD ON MODEL!!
- > Identify your cell as plant or animal using a LABEL.

#### Parts to include: NUMBER THESE PARTS ON YOUR MODEL!!

PLANT CELL	ANIMAL CELL	
Cell membrane	Cell membrane	
Cell wall	Cytoplasm	
Chloroplast	Mitochondria	
Cytoplasm	Nucleus	
Mitochondria	Nuclear membrane	
Nucleus	Golgi bodies	
Nuclear membrane	Lysosome	
Golgi bodies	Endoplasmic reticulum	
Endoplasmic reticulum	Nucleolus	
Nucleolus	Very Small Vacuole	
Very Large Vacuole	Chromosomes	
Chromosomes	Ribosomes	
Ribosomes	Centrioles	

#### II. KEY: 8 1/2 X 11 paper, TYPED, 3 columns.

- ➤ Column 1 = the **NUMBER** of each part
- $\triangleright$  Column 2 = the **NAME** of each part
- ➤ Column 3 = a CONCISE statement of the FUNCTION of each part
- > PUT YOUR NAME & PER. ON KEY!!
- **Label your key plant or animal cell.**

#### **Important Vocabulary**

Concise = clear, complete, short description Function = what the part <u>DOES</u>. Its purpose. (Not a description of what it looks like) 3D = 3 dimensional = has length, width and depth (Not flat)

Name (PRINT)	) Period Due Date
	Grading Rubric - 3D Cell Model
below as a check <b>TEACHER CO</b>	must include all requirements shown below. Use the <b>STUDENT</b> column list to be sure you include all parts of the rubric. <b>LEAVE THE LUMN BLANK FOR GRADING PURPOSES.</b> Turn in this sheet with 2 pts. extra credit.
I. MODEL	
TEACHER STUDENT	
	All cell parts clearly& accurately represented on the model 20 pts.
	Cell parts numbered 5 pts.
	Model parts and numbers securely attached 5 pts.
	Professional appearance, neatness, contrasting colors 5 pts.
II. KEY	
TEACHER STUDENT	
	Numbers and accurate functions given for all parts 10 pts.

Spelling, grammar, punctuation 5 pts.

**Total Points** 

Extra credit for including this sheet 2 pts.