3-D Cell Model Grading Rubric (TEST GRADE!)

| | Functions of Organelles (on back of label) | Labeled Organelles | Details | Cell Type | Creativity | Appearance | |
|-------------|---|---|---|--|---|--|--------------------------------------|
| real world. | Functions of all organelles are correctly described in detnil. Carel Connected to | I 1+ organelles are correctly located and labeled on the model. | All organelles & cell parts are accurately detailed and clearly represented. Actual numbers of organelles are represented. | Cell model clearly represents a cither an animal or a plant cell | Cell model uses materials not often seen in most projects. | Project stands out from the rest, shows evidence of considerable effort. | Excellent 5 |
| | Functions of all organelles are correctly summarized. | 8-10 organelles are correctly located and labeled on the model. | Most organelles & cell parts are accurately detailed and clearly recognizable. Actual numbers of organelles are represented. | Cell model represents a plant or animal cell. | Good, creative use of materials that are often used by other students | Appearance is neat, labels are typed or mently written, project is organized, and shows evidence of good effort. | Satisfactory '님~궁 |
| | Functions of some organelles are summarized with minor errors. | 5-7 organciles are correctly located and labeled on the model. | More detail needed to recognize cell parts. Some are not recognizable. Numbers of organelles are somewhat representative of an actual cell. | Model is a replica of a generalized cell. | Minimal creativity is used; project is a poster or other 2-D model. | Labels are hard to read, project is not neally done, more effort needed | Needs Improvement 2 |
| | Functions are not clearly explained or contain errors. | <5 organelles are labeled OR there are errors with organelles identified. | Parts of cell are generalized "blobs" of color. Numbers of organelles are NOT representative of an actual cell. | | Lacks creativity, copied from diagram in book. | Appears hasily built, lack of effort is evident. | Unacceptable : |

3-D Cell Model

Objective: Make a 3-D model of a cell.

Guidelines:

- A.) You may choose to make a plant or animal cell.
- B.) Your cell must be 3- dimensional with front, back and sides.
- C.) The model may be edible or non-edible
- pieces of paper to make D.) All parts of your cell must be labeled clearly. Suggestion: use toothpicks and

little flags.

- E.) Your organelles should clearly represent the actual organelle. By just looking at an organelle I should be able to tell what it is. Ex: Your nucleus should not be square. Your mitochondria should have a folded inner membrane.
- F.) Actual numbers of organelles found in real cells should be represented. Ex: Each cell has one nucleus. Plant cells have one large vacuole. Cells have multiple mitochondria and other organelles.
- G.) Functions of each organelle should be provided. Suggestion: use the back side of your label "flags" to write down the job of that organelle.
- H.) Be unique and creative! Use a variety of appropriate materials.

Organelles that should be included:

| _ | _ | _ | _ | _ | _ | | - | | | | | \neg | |
|------------------|------------------|------------------|-----------------------------------|--------------------|-----------------|-----------------|-----------------|--------------|--------------|---------------------------------|------------------|------------------------|--|
| 12. Chloroplast | 11. Mitochondria | 10. Vacuole(s) | Golgi Apparatus | 8. Ribosomes | 7. Rough ER ールー | 6. Smooth ER- | 5. Nucleolus | 4. Nucleus | 3. Cytoplasm | Cell Membrane | 1. Cell Wall | Eukaryotic Plant Cell | |
| Nuclear Membrane | 11. Lysosomes | 10. Mitochondria | 9. Vacuole(s) | 8. Golgi Apparatus | 7. Ribosomes | 6. Rough ER ノケベ | 5. Smooth ER TO | 4, Nucleolus | 3. Nucleus | 2. Cytoplasm | 1. Cell Membrane | Eukaryotic Animal Cell | |

Total Points Earned: