

# CELL MODEL RUBRIC – Life Science 7 CA STANDARD 7.1 All living organisms are composed of cells - The nucleus is the site for genetic information (DNA/RNA)... - Mitochondria convert energy for the work that cells do....-Chloroplasts capture sunlight energy for photosynthesis

|  | <b>1<br/>ROOKIE</b>   | <b>2<br/>HARD “CELL”</b>  | <b>3<br/>CELL BIOLOGIST</b>   | <b>4<br/>LAB RAT</b>  |
|--|---|---|---|---|
| <b>CRAFTSMANSHIP</b>                         | <ul style="list-style-type: none"> <li>- Very sloppy looking</li> <li>- Little effort is evident</li> <li>- NOT 3 – D</li> <li>- Model does not stay together.</li> <li>- Not in a box</li> </ul> | <ul style="list-style-type: none"> <li>- In pencil, or sloppy writing</li> <li>- Sloppy looking</li> <li>- Partially completed</li> <li>- Not very organized</li> <li>- NOT 3 - D</li> </ul>            | <ul style="list-style-type: none"> <li>- Pen</li> <li>- Neat looking</li> <li>- well organized</li> <li>- unique materials</li> <li>- 3 - DIMENSIONAL</li> </ul>  | <ul style="list-style-type: none"> <li>- Typed</li> <li>- Professional looking</li> <li>- Very well organized</li> <li>- color; membranes, etc.</li> <li>- 3 – DIMENSIONAL</li> <li>- Model stays together</li> <li>- Contained in a box</li> </ul> |
| <b>IDENTIFICATION KEY &amp; DESCRIPTIONS</b> | <ul style="list-style-type: none"> <li>- No key</li> </ul>  | <ul style="list-style-type: none"> <li>- May lead reader to wrong organelle</li> <li>- May be confusing</li> <li>- Organelles not labeled</li> </ul>  | <ul style="list-style-type: none"> <li>- Leads reader to the proper organelle</li> <li>- Parts are labeled</li> <li>- Name, class, date, partial</li> </ul>   | <ul style="list-style-type: none"> <li>- Type of cell clear; animal/plant</li> <li>- Name/class/date written clearly</li> <li>- Accurate descriptions of reasoning behind choice of parts</li> </ul>  |
| <b>CELL PARTS--<br/>General</b>              | <ul style="list-style-type: none"> <li>- Does not describe organelles to allow reader to understand their different roles</li> </ul>  | <ul style="list-style-type: none"> <li>- Cell organelles only vaguely described</li> </ul>  | <ul style="list-style-type: none"> <li>- Function of organelles is adequately described</li> </ul>  | <ul style="list-style-type: none"> <li>- Function of organelles is <i>thoroughly</i> described</li> </ul>   |
| <b>CELL PARTS--<br/>Arrangement</b>          | <ul style="list-style-type: none"> <li>- No unique arrangement of organelles</li> </ul>   | <ul style="list-style-type: none"> <li>- Unique arrangement of organelles, but not for any specific purpose</li> </ul>  | <ul style="list-style-type: none"> <li>- Unique arrangement of organelles for specific purpose</li> <li>- Includes &gt; ONE specialized organelle</li> </ul>  | <ul style="list-style-type: none"> <li>- Organelles arranged to show how they work together (ie nuclear membrane connected to endoplasmic reticulum, etc).</li> </ul>   |
| <b>CELL PARTS--<br/>MATERIALS</b>            | <ul style="list-style-type: none"> <li>- Choice of materials is poor</li> </ul>   | <ul style="list-style-type: none"> <li>- Choice of materials is questionable</li> </ul>   | <ul style="list-style-type: none"> <li>- Materials adequately represent cell parts</li> </ul>   | <ul style="list-style-type: none"> <li>- Demonstrate originality and represents organelles exceptionally well</li> </ul>  |
| <b>CELL PARTS-- # of cell parts</b>          | <ul style="list-style-type: none"> <li>- May be missing more than two organelles</li> </ul>   | <ul style="list-style-type: none"> <li>- May be missing up to two organelles</li> </ul>   | <ul style="list-style-type: none"> <li>- 10+ animal or 12+ plant</li> </ul>   | <ul style="list-style-type: none"> <li>- 12+ animal or 14+ plant</li> </ul>   |
| <b>WRITTEN WORD—<br/>General</b>             | <ul style="list-style-type: none"> <li>- <i>NO explanation of cell's structure in relation to its function</i></li> <li>- Includes many spelling, grammar, and punctuation mistakes.</li> </ul>   | <ul style="list-style-type: none"> <li>- <i>Explanation of cell's structure in relation to its function is vague</i></li> <li>- Includes several spelling, grammar, or punctuation mistakes.</li> </ul> | <ul style="list-style-type: none"> <li>- <i>Includes a clear explanation of cell's structure in relation to its function</i></li> <li>- May include one spelling, grammar, or punctuation mistake.</li> </ul> | <ul style="list-style-type: none"> <li>- <i>Includes a clear explanation of cell's structure and function</i></li> <li>- Free of any spelling, grammar, or punctuation errors</li> </ul>  |
| <b>WRITTEN WORD—<br/>Bibliography</b>        | <ul style="list-style-type: none"> <li>- No resource listed on bottom of key or on model</li> </ul>   | <ul style="list-style-type: none"> <li>- Sketchy resource(s) listed on bottom of key or on model</li> </ul>   | <ul style="list-style-type: none"> <li>- Name of resource(s) listed on bottom of key or on model</li> </ul>   | <ul style="list-style-type: none"> <li>- Bibliography as on format from library; APA style</li> </ul>   |

POINTS WILL BE LOST DUE TO THESE PROBLEMS:

1. Used perishable food items \_\_\_\_\_
2. Model is larger than 9” X 12” \_\_\_\_\_
3. Written work not reworded from resource used \_\_\_\_\_
4. This assignment page and rubric is lost \_\_\_\_\_

**TOTAL SCORE = \_\_\_\_\_ / 87**

