

# Cells Unit Project

Due: FRIDAY, MARCH 17

Choose 1 of the following options



= Verbal/Linguistic Intelligence



= Visual/Spatial Intelligence



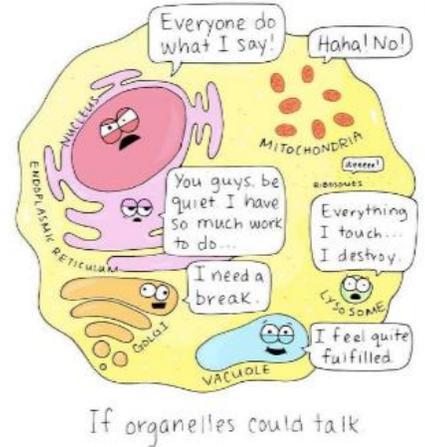
= Bodily/Kinesthetic Intelligence



= Musical/Rhythmic Intelligence

## Option 1: Children's book

- Write a CHILDREN'S book (for a child 5-7 years old) about cell parts and their functions.
- It should be interesting and EASY TO UNDERSTAND. **This is a story, not just stating the facts.**
- Illustrate with appropriate illustrations that describe what is happening on each page of the story.
- You can choose to do either the animal cell or the plant cell. The following organelles **must be included**:



Cell Membrane	Nucleus	Ribosomes
Golgi Body	Endoplasmic Reticulum	Vacuole
Mitochondria	Lysosomes (animal only)	Chloroplasts (plant only)
Cell Wall (plant only)		

- Optional Organelles:** 1 pt. extra credit each

Nucleolus	Nuclear Envelope	Chromatin	Cytoskeleton
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## Option 2: Create a Paper Slide Video

- Create a paper slide video about cell parts and their functions.
- It should be interesting and EASY TO UNDERSTAND for an audience that is between the ages 5-7.
- This is a story, not just stating the facts. It should be illustrated with appropriate illustrations that describe what is happening on each slide of the story.
- You can choose to do either the animal cell or the plant cell. The following organelles **must be included**:

Cell Membrane	Nucleus	Ribosomes
Golgi Body	Endoplasmic Reticulum	Vacuole
Mitochondria	Lysosomes (animal only)	Chloroplasts (plant only)
Cell Wall (plant only)		

- Optional Organelles:** 1 pt. extra credit each

Nucleolus	Nuclear Envelope	Chromatin	Cytoskeleton
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### Option 3: Song/Rap Video



- Create a song/rap that explains the structure/function of the cell organelles. Remember, the final product should be something next year's students could use to learn about plant/animal cells.
- The song must include a minimum of 3 different verses and a chorus.
- Create a video to go along with your song/rap.
- The video should be a **minimum of 3 minutes in length**.
- You can choose to do either the animal cell or the plant cell. The following organelles **must be included**:

Cell Membrane	Nucleus	Ribosomes
Golgi Body	Endoplasmic Reticulum	Vacuole
Mitochondria	Lysosomes (animal only)	Chloroplasts (plant only)
Cell Wall (plant only)		

- Optional Organelles:** *1 pt. extra credit each*

Nucleolus	Nuclear Envelope	Chromatin	Cytoskeleton
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### Option 4: 3-D Cell Model & Analogy System Blueprint Comparison



- Choose a real world working system & decide how each organelle can be compared to the components and functions of the real world system. Some ideas of real world systems are...
  - o School, Human Body, Country
- Design, build and label a 3-D model of a plant or animal cell **(NOTHING THAT WILL SPOIL)**
- Create a blueprint drawing of the real-world system
- The cell AND real world system both must be labeled.
- On a separate sheet, create a three column chart that includes the organelle, the analogous structure, and 1-2 sentences that explains the analogy. Make sure you have all the organelles.
  - o Example of a 3 column chart

Cell Organelle	Analogous Structure	Explanation
Nucleus	Coach	The coach directs all of the activities & makes the plan for the game...like the nucleus directs all cell activities and contains all information.
Cell Membrane	Sidelines of the field	The sidelines of the field define what is in the field and what is out...like the cell membrane is the boundary between the inside and outside of the cell.

- You can choose to do either the animal cell or the plant cell. The following organelles **must be included**:

Cell Membrane	Nucleus	Ribosomes
Golgi Body	Endoplasmic Reticulum	Vacuole
Mitochondria	Lysosomes (animal only)	Chloroplasts (plant only)
Cell Wall (plant only)		

- Optional Organelles:** *1 pt. extra credit each*

Nucleolus	Nuclear Envelope	Chromatin	Cytoskeleton
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# Cells Unit Project Teacher RUBRIC – DUE FRIDAY, MARCH 17

The final product will be graded on the following...

Criteria	A	B	C	D	F	Did not show
<b>Followed directions for chosen project</b> ➤ <i>Make sure to use the project descriptions as a <u>CHECKLIST!</u></i>	10	8	7	6	5	0
<b>Represented appropriate organelles for the cell(s) chosen</b> ➤ Were organelles represented well in drawings, models, etc...	15	13	11	9	8	0
<b>Accurately described/explained the function of each organelle structure</b>	30	25	23	20	15	0
<b>Organization and neatness</b> ➤ Remember this is a PROJECT! Turn in your BEST work! ➤ Is the project easy to understand/follow? ➤ Is the project legible? ➤ Is the layout appropriate for the chosen project?	15	13	11	9	8	0
<b>Creativity and Curb Appeal</b> ➤ Show your creative side!	15	13	11	9	8	0
<b>Classroom Participation (5 points each day x 3 days)</b> ➤ Remained on task ➤ Limited social conversations ➤ Used time effectively	15	13	11	9	8	0
<b>TOTAL POINTS EARNED</b>						

**Teacher Comments:**

# Cells Unit Project **SELF-ASSESSMENT RUBRIC** – **DUE FRIDAY, MARCH 17**

Reflect on the following criteria. Be HONEST in your self-assessment.

<b>Criteria</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>Did not show</b>
<b>Followed directions for chosen project</b> ➤ <i>Make sure to use the project descriptions as a <u>CHECKLIST!</u></i>	10	8	7	6	5	0
<b>Represented appropriate organelles for the cell(s) chosen</b> ➤ Were organelles represented well in drawings, models, etc....	15	13	11	9	8	0
<b>Accurately described/explained the function of each organelle structure</b>	30	25	23	20	15	0
<b>Organization and neatness</b> ➤ Remember this is a PROJECT! Turn in your BEST work! ➤ Is the project easy to understand/follow? ➤ Is the project legible? ➤ Is the layout appropriate for the chosen project?	15	13	11	9	8	0
<b>Creativity and Curb Appeal</b> ➤ Show your creative side!	15	13	11	9	8	0
<b>Classroom Participation (5 points each day x 3 days)</b> ➤ Remained on task ➤ Limited social conversations ➤ Used time effectively	15	13	11	9	8	0
<b>TOTAL POINTS EARNED</b>						

**Student Comments**

# Cells Unit Project **PEER-ASSESSMENT #1 RUBRIC** – **DUE FRIDAY, MARCH 17**

Reflect on the following criteria. Be HONEST in your self-assessment.

<b>Criteria</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>Did not show</b>
<b>Followed directions for chosen project</b> ➤ <i>Make sure to use the project descriptions as a <u>CHECKLIST!</u></i>	10	8	7	6	5	0
<b>Represented appropriate organelles for the cell(s) chosen</b> ➤ Were organelles represented well in drawings, models, etc....	15	13	11	9	8	0
<b>Accurately described/explained the function of each organelle structure</b>	30	25	23	20	15	0
<b>Organization and neatness</b> ➤ Remember this is a PROJECT! Turn in your BEST work! ➤ Is the project easy to understand/follow? ➤ Is the project legible? ➤ Is the layout appropriate for the chosen project?	15	13	11	9	8	0
<b>Creativity and Curb Appeal</b> ➤ Show your creative side!	15	13	11	9	8	0
<b>Classroom Participation (5 points each day x 3 days)</b> ➤ Remained on task ➤ Limited social conversations ➤ Used time effectively	15	13	11	9	8	0
<b>TOTAL POINTS EARNED</b>						
<b>Peer #1 Comments</b>						

# Cells Unit Project **PEER-ASSESSMENT #2 RUBRIC** – **DUE FRIDAY, MARCH 17**

Reflect on the following criteria. Be HONEST in your self-assessment.

<b>Criteria</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>Did not show</b>
<b>Followed directions for chosen project</b> ➤ <i>Make sure to use the project descriptions as a CHECKLIST!</i>	10	8	7	6	5	0
<b>Represented appropriate organelles for the cell(s) chosen</b> ➤ Were organelles represented well in drawings, models, etc....	15	13	11	9	8	0
<b>Accurately described/explained the function of each organelle structure</b>	30	25	23	20	15	0
<b>Organization and neatness</b> ➤ Remember this is a PROJECT! Turn in your BEST work! ➤ Is the project easy to understand/follow? ➤ Is the project legible? ➤ Is the layout appropriate for the chosen project?	15	13	11	9	8	0
<b>Creativity and Curb Appeal</b> ➤ Show your creative side!	15	13	11	9	8	0
<b>Classroom Participation (5 points each day x 3 days)</b> ➤ Remained on task ➤ Limited social conversations ➤ Used time effectively	15	13	11	9	8	0
<b>TOTAL POINTS EARNED</b>						
<b>Peer #2 Comments</b>						



