

ANIMAL CELL

IN
A GALAXY
FAR FAR AWAY

**MULTIPLE ORGANELLES
ARE WORKING TOGETHER TO
CREATE HARMONY WITHIN A CELL.**

**HOW THESE FORCES WORK TOGETHER WILL BE
ILLUSTRATED AS YOU USE THE FORCE IN THE INNERCELLACTIC VOYAGE...**

REQUIREMENTS:

1. Travel throughout an animal cell. Include the name, general structure, and function of the organelles.
2. Using your innercellactic communication system, dialog with your fellow voyagers in other types of cells: plant cell or prokaryotic cell. Compare and contrast your experiences.
3. Be creative with the ending to this story. Will harmony be maintained? Or will evil rule over good?
4. ALL Animal Cell Projects must include the following ORGANELLES:
 - cell membrane
 - cytoplasm
 - nucleus
 - nucleolus
 - ribosomes
 - mitochondrion
 - endoplasmic reticulum
 - golgi apparatus
 - lysosomes
 - vesicles/vacuoles

BE CREATIVE!!!!

PROJECT OPTIONS:

1. Innercellactic Voyage

A. Write a story as you travel throughout an animal cell. Include the name, describe the general structure, and function of the parts of the cell.

B. Using your innercellactic communication system, dialog with your fellow voyagers in other types of cells: plant cell **and/or** a prokaryote cell. Compare and contrast your experiences.

C. Be creative with the ending to this story. Will harmony be maintained? Or will evil rule over good?

D. Include a hand drawing of an animal cell that is labeled correctly.

2. Comic Book

- A. Create a comic book of the adventures through an animal cell. Include the name, the general structure, and function of the nine parts of an animal cell.
- B. In the book compare differences in other types of cells: plant cell **and/or** a prokaryote cell.
- C. Be creative with the storyline.
- D. **Comic book must include a hand drawing of an animal cell with labeled parts.**

3. Skit (Imovie)

- A. Using no more than two people, perform a skit of your traveling adventure that demonstrates the names, general structures, and functions of the nine parts of an animal cell. You can use costumes and props.
- B. Compare differences in other types of cells: plant cell **or** a prokaryote cell.
- C. Be creative with the story. Is the cell in harmony or will chaos rule? How do the parts of the cell interact with one another?
- D. Create a program cover. **The cover must be of a hand drawn animal cell that is labeled correctly.**

4. Song/rap

- A. Using no more than two people, perform a song that demonstrates the names, general structures, and functions of the nine parts of an animal cell.
- B. Compare differences in other types of cells: plant cell **and/or** a prokaryote cell.
- C. You can use any style of music.....keep it clean. Be creative. Remember it is a voyage inside the cell.
- D. Write out your lyrics and create an album cover. **The cover must be a hand drawn picture of an animal cell that is labeled correctly.**

The Imperial Leader will judge your proposals on scientific accuracy, explanation of the organelles' functions, professionalism (including grammar and spelling), and creativity in presentation. **THE INFORMATION IN MUST BE IN YOUR OWN WORDS.** Creativity is welcomed!! Plenty of background information can be found on the Internet or in various textbooks.

Extra Credit:

Cell T-Shirt

For a 10 point grade raiser –

1. Get an inexpensive, white, adult undershirt that is large enough to wear.
2. Using a pencil, **very lightly** draw two large cells (a plant cell and its organelles on one side, the animal cell on the other) filling the majority of the surface area.
3. Cells must include: Cell wall/Cell membrane, nucleus, cytoplasm, endoplasmic reticulum, ribosomes, mitochondria, vacuoles, lysosomes, chloroplasts, Golgi bodies.
4. Colors should assist in identifying the organelles (i.e. chloroplasts = green; ribosomes = purple, etc...)
5. You will be able to wear your shirt for CELEBRATE CELL Day! You will also be allowed to wear it on any test day!

Be prepared to share with your classmates
BE CREATIVE!!!!
Have fun!!!!

Innercellatic Voyage (Animal Cell Drawing/model)

- Don't forget to check off the rubric!

Criteria	Yes	No	Satisfactory	Needs Improvement	Unsatisfactory
1. Animal Cell is hand drawn on plain paper and labeled correctly			7	3	1-0
2. Cell is colored.			6	3	1-0
3. Sketch is correctly shaped and labeled as an animal cell, as a prokaryotic or eukaryotic cell			7	3	1-0
4. Cell membrane			4	2	1-0
5. Cytoplasm			4	2	1-0
6. Mitochondria			4	2	1-0
7. Golgi apparatus			3	2	1-0
8. Lysosomes			3	2	1-0
9. Vesicles/vacuoles			3	2	1-0
10. Ribosomes			3	2	1-0
11. Endoplasmic reticulum			3	2	1-0
12. Nucleus & Nucleolus			3	2	1-0

Cell points: _____ /50 _____

Criteria	Yes	No	Satisfactory	Needs Improvement	Unsatisfactory
1. Artifact is clear and neat and there is a story line.			5	2	1-0
2. Text /script/ lyrics clearly states general structure and is in the student's own words			5	3	1-0
3. Accurately refer to organelles' functions			5	3	1-0
4. Each organelle is mentioned			5	2	1-0
6. Comparison of animal cell and a plant cell and/ or prokaryotic cell			10	4	1-0
5. Puts name(s) and period on project			5	2	1 - 0
7. Completes yes/no column of the rubric			5	2	1-0
6. Handed in on time			10	One week late 5	More than one week late 1 - 0

Points _____ 50 _____

Total Project Points: _____ / 100 _____ = _____ %

A

B

C

D

F

OPTIONAL Task and Time Planner

Start Project: _____

Project Due: _____

Task	Start Date	Date to Complete	Initials of student, parent, or teacher
Project discussed. Choose which project option you will complete - Plant or Animal Cell.			
Choose which type of artifact you will complete.			
Begin project by filling out questions below and doing research			
Begin building/creating your artifact			
Have an adult check your work			
Complete check list on rubric			
Hand - In			

Innercellactic Voyage Sheet

Use this sheet to help you to better organize your notes on your gathered research about your organelles.

1. *What is your organelle's job?*
2. *Does this organelle work with any other organelles in order to do its job?*
3. *Where is this organelle's location in the cell?*
4. *How many of this organelle are in the cell? Just one? several? many? Why?*

Use your answers to these above questions to create some ideas for your innercellactic voyage