

Name: _____ Period: _____ Lab Team: _____ Date: _____

PROJECT: *Organelle Idol*

Objective: The purpose of this lab is to identify the organelles within cells along with their function and importance to the cell and organism as a whole. (Indiana State Academic Standards: Biology, 1.1, 1.2, 1.5, & 1.12)

Instructions: Unleash your creative side! You will be working in groups of 2-4 to create a song or rap pertaining to the organelles within cells. Your group/band will have a name and a music video for your "hit single."

Goals:

1. Students should be able to distinguish between plant and animal cells.
2. Students should understand the function of various organelles.
3. Students should be able to develop a rap or song to communicate the functions of organelles within a plant or animal cell and how those organelles are important to the cell and the organism as a whole.

Requirements:

1. Must write **original lyrics**. You can do a song, rap or spoken-word poetry.
2. Music can be original or you can change the words to a pre-existing song/melody.
3. Provide a printed, legible copy of the lyrics to your record producer (your teacher) along with one COMPLETED copy project rubric (back of this page) at the beginning of class on the due date.
4. Performance must be uploaded on YouTube® by 7:25am on the due date.
5. The song must NAME, DESCRIBE and explain the FUNCTION of the following organelles:

___ cell membrane	___ lysosome
___ cytoplasm	___ mitochondria
___ nucleus	___ centriole
___ nucleolus	___ cytoskeleton
___ ribosome	___ chloroplast
___ Golgi apparatus	___ vacuole
___ lysosome	___ cell wall
___ endoplasmic reticulum (smooth & rough)	
6. The song must include at least one verse about WHY and HOW cells are important to multi-cellular organisms.
7. The song should be no longer than 4-minutes. All lyrics should be school appropriate.
8. When you post your video on YouTube® you must give it a title and include your band/group name. You should also e-mail the link to your record producer (dmiller@msdwt.k12.in.us) with the names of all the members of your band/group and your class period.

RUBRIC: *Organelle Idol*

Period: _____ Date: _____

Names: _____

Topic	Description	Points	Out of
Organelles & Descriptions	<p>- All of the required organelles are included and described in the performance. (1pts. each)</p> <p>___ cell membrane ___ lysosome ___ cytoplasm ___ mitochondria ___ nucleus ___ centriole ___ nucleolus ___ cytoskeleton ___ ribosome ___ chloroplast ___ Golgi apparatus ___ vacuole ___ lysosome ___ cell wall ___ endoplasmic reticulum (smooth & rough)</p> <p><i>(EXAMPLE: "Mitochondria is the powerhouse of the cell.")</i></p>		15
Functions	<p>- The functions of all the required organelles are included in the performance and are correct. (1pts. each)</p> <p>___ cell membrane ___ lysosome ___ cytoplasm ___ mitochondria ___ nucleus ___ centriole ___ nucleolus ___ cytoskeleton ___ ribosome ___ chloroplast ___ Golgi apparatus ___ vacuole ___ lysosome ___ cell wall ___ endoplasmic reticulum (smooth & rough)</p> <p><i>(EXAMPLE: "Mitochondria takes glucose and turns it into ATP for energy.")</i></p>		15
Importance	<p>- Includes at least one verse about WHY and HOW cells are important to multi-cellular organisms.</p>		4
Creativity	<p>- Uses rhythm and rhyme creatively to tell about the structure and function of cells in student friendly language. (3pts.)</p> <p>- Video looks professional and lyrics can easily be heard. (3pts.)</p> <p>- Used time well during each class. Focused on getting the project done without distracting others. (2pts.)</p>		8
Format	<p>- Video is appropriate length. (2pts.)</p> <p>- Video is uploaded to YouTube® and includes the title of the song and the band/group name. (2pts.)</p> <p>- Link to video is e-mailed to the record producer by the deadline. (2pts.)</p> <p>- Printed lyrics and rubric is submitted to the record producer, is legible, and contains all the required information. (2pts.)</p>		8
TOTAL			50