

Handwritten scribbles

give diseases caused by a malfunction in organelle

GATHER YOUR FACTS!

At the end of this journey, you will need the following:

A Wanted Poster featuring your organelle either created on the computer or on a big sheet of paper. Your Wanted Poster should be neatly and creatively done with some color.

Your Wanted Poster should include...

- A picture of your organelle along with a description.
- A nickname of your organelle that may describe the looks or its function (have fun with this many of these names could sound like an outlaws name while still fitting in my guidelines of a nickname).
- A crime that this organelle could actually commit, so in other words the crime should relate to the organelle's function.
- Other organelles that may be involved with the crime. How are they involved? What do they do that helps your organelle?
- An explanation on what may happen if this crime is allowed to continue. Will it affect other organelles? How? Will affect "The Cell" or "The Body"? How?
- Where is this organelle located? Is it more common in some types of cells than others?

Supporting paragraphs → *next day = newspaper article outlining crime*

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poster

what
side

Why did you choose this?

what relationship do they have to your organelle?
Who will this affect?



Authentic Intellectual Work

Teacher – Hilary Scheffler

Subject – Biology

Grade – 10th

Lesson – The Organelle Trail

Big Idea – Cells

Standard and Benchmark – Understand and apply knowledge of the cell; structure and function

Introduction/Background –

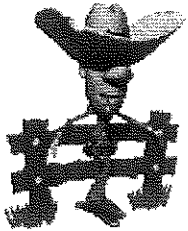
We have started the cell unit and took notes over and discussed the organelles.

Task – (Can attach)

Explain a situation

Bring any supporting documents that will assist students in completing this task such as; rubrics, additional handouts, graphic organizers, Viking Pride in writing, etc.

The Organelle Trail



Yeeeeeeea Haaaaaw! Grab yer hat and saddle the broncs! It's time to head down the Organelle Trail on a little Wild West adventure! You've just been made a U.S. Marshall! And, you got some wrangling to do!

Now that you are a U.S. Marshall, your job is to gather all of the information you can about a WANTED organelle. At the end of this "cyber" trail, you will need to whip up a WANTED poster to show to the other US Marshalls in your camp. Think America's Most Wanted – Wild West Style! Everyone will then be on the look out for your WANTED organelle too!



Part 1: First Duties

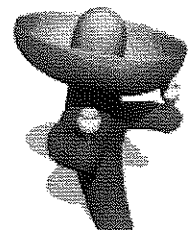
1. Get your assigned organelle/structure (This will be provided in your briefing - during class!)

Organelle: _____

Part 2: Gather Your Facts

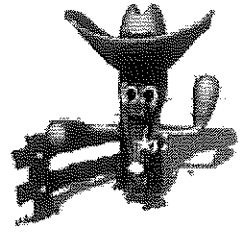
To complete your poster (and find your suspect!), you will need to gather facts on the trail! As you gather your facts, record the information on your FACT SHEET. You will need to know the following:

1. CRIME: What has this organelle done?
 - ✓ Why is this organelle "wanted"? In other words, what it is not doing for the cell? Or, what is the function the organelle is not doing?
2. PHYSICAL DESCRIPTION: What does the organelle look like?
 - ✓ Provide a description and an actual picture.
3. LOCATION: Where should we look for the organelle?
 - ✓ Which of the following types of cells is this organelle found in? Make sure that you have explored, bacteria – Archaeobacteria and Eubacteria, Protists, Fungi, Plants and Animals.
 - ✓ Where is the organelle located in the cell? (By other specific organelles? By the cell membrane? Floating in the Cytoplasm?)



Part 3: The Trail

You will need to follow a “cyber” trail to find information about your wanted organelle. Visit several websites to help gather your facts.



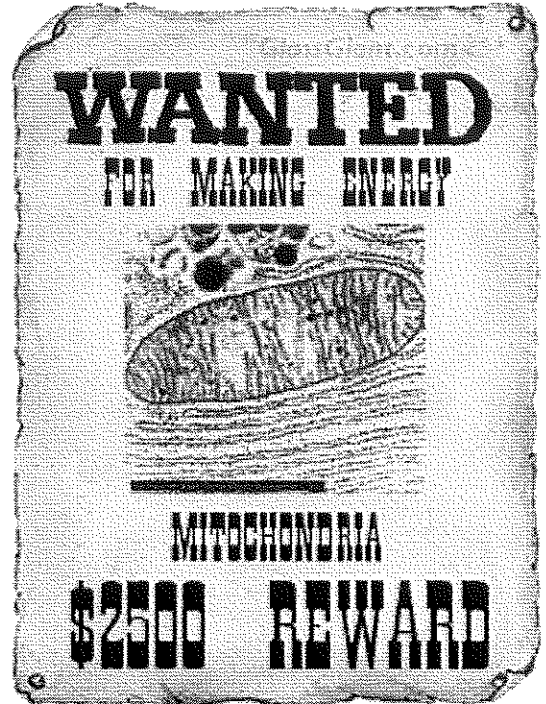
Part 4: The Roundup

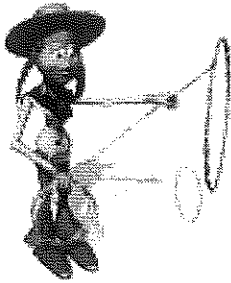
Share the information you have discovered by completing a “WANTED” poster for your organelle. The poster should include:

1. A large “WANTED” displayed
2. A mug shot from a sketch artist (hand drawn/created on computer) of your organelle/structure
3. The crime this organelle is committing

Part 5: The Article

Create an article that could run in the local paper, *The Gunshot Journal*. Include in your story descriptive answers (in your own words!) to all the questions in Part 2 – the crime, description of appearance, and location in the cell. You should also include other organelles that may be involved with the crime. Why are they involved? What relationship do they have to your organelle? Or, give an explanation on what may happen if this crime is allowed to continue. How might it affect other organelles, the cell, or the body? You may want to look at actual newspaper articles to get an idea of the format of your article.





Organelle FACT SHEET

<p style="text-align: center;"><u>PHYSICAL DESCRIPTION</u> Organelle's Appearance</p> <p>Describe the appearance of the organelle. Then, write down the websites that you used to complete the organelle appearance.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p style="text-align: center;"><u>CRIME</u> Organelle's Function</p> <p>The function (job) this organelle is not doing for the cell is:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<u>LOCATION</u>	
<p style="text-align: center;">Organelle's Location</p> <p>My organelle, _____, is always close to this organelle, _____.</p> <p style="text-align: center;">OR</p> <p>My organelle, _____, is usually found _____.</p> <p style="text-align: center;">OR</p>	<p style="text-align: center;">Type of Cell that the Organelle is Found In (Think about the different types of cells.)</p> <p>Animal:</p> <p style="text-align: right;">OR</p> <p>Plant:</p> <p style="text-align: right;">OR</p> <p>Fungus:</p> <p style="text-align: right;">OR</p> <p>Protist:</p> <p style="text-align: right;">OR</p>

My organelle, _____, has no specific location, but is located within the cell's

_____.

Eubacteria:

OR

Archaeobacteria:

OR

I think the relationship between structure (the way the organelle looks) and function (the job the organelle does) is... (Hint: Does the way the organelle look help it do it's job?)