

Grab yer hat and saddle the broncs! It's time to head down the Organelle Trail.

You've just been made a U.S. Marshall!

Your job is to gather all of the information you can about a wanted organelle. At the end of this cybertrail, you will need to whip up a wanted poster to show to the other U.S. Marshalls in your camp (so that they will know to look for your wanted organelle too!)

Part 1: First Duties

Receive your assignment and team.

Part 2: Gather Your Facts

To complete your poster (and find your suspect!), you will need to know the following:

CRIME: What has this organelle done? Why is this organelle "wanted"? In other words, what does it do for the cell? Or, what is the organelle's function?

PHYSICAL DESCRIPTION: What does the organelle look like? Provide a description and an actual picture. The picture can be a mug shot (printed picture) or a sketch from a sketch artist (hand drawn).

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 plants and animal cells.

ACOMPLICES: In other words, which other organelles/structures help your organelle do its job?

Part 3: The Roundup

Share the information you have discovered by completing a wanted poster. The poster should include, but is not limited to:

1. A picture of your organelle/structure (drawn or taken from a web site or book)
2. Answers (in your own words!) to all 4 items in part 2

3. 3 resources cited (just the name of the book or website link is fine) on the back of your poster
4. You are encouraged to be creative – decorate your poster, make it look old. For ideas or help in making your wanted poster visit the following website (<http://www.glassgiant.com/wanted/>). Remember the more effort and creative your poster is the better chance of getting full credit.



Here is a brief list of places to help you get started. These are not the only places to look for your organelles!

- Cell Organelle Table – A table listing organelles, their location, description, and their function.
<http://utahscience.oremjr.alpine.k12.ut.us/sciber00/7th/cells/sciber/orgtable.htm>
- Virtual Tour of a Cell – Visit this site to tour a plant or animal cell. Click on the individual organelles to see a description of each.
https://www.classzone.com/books/ml_science_share/vis_sim/chm05_pg7_cell/chm05_pg7_cell.swf
- Spongelab Cell – Take a virtual tour of the structures inside plant and animal cells
https://www.spongelab.com/game_pages/bac.cfm

The Organelle Trail Rubric

	Rookie (1)	Apprentice (5)	Expert (10)	Total
Creativity	No effort on creativity or connection to the “Wanted” theme	Some effort on creativity or connection to the “Wanted” theme	Excellent effort on creativity or connection to the “Wanted” theme	
Used Own Words	Students did not use their own words	Students used mostly their own words	Students clearly synthesized information in their own words	
Accuracy and thoroughness	The four assigned questions were not answered. Classmates will need other resources to include this organelle in their big projects		All the four questions were answered thoroughly.	
Visuals	The student did not use visuals in their poster or the visuals are unrelated to the organelle	The students used visuals, but they are rushed or unclear	The students used a visual and its purpose is clear.	
Resources	We had to cite resources?	Students cited one resource.	Students cited two or more resources	