

Organelles Analogy Project Workday

Subject: Biology I

Period: 48 minutes

Date:

Objectives:

- TSW construct an analogy to compare the organelles found in eukaryotic cells to a real like example (4a DOK 3).

Materials:

- PowerPoint, Dry Erase Markers

Bell Work (8 minutes):

- White blood cells ingest bacteria in order to rid the body of harmful substances through digestion. Which organelle is responsible for digesting and breaking down the bacteria?
 - a. golgi bodies
 - b. nucleus
 - c. lysosome
 - d. chloroplast

Set (5 minutes):

- The students will watch a short video that compares the functions and processes of a cell to that of a city. This analogy will be used to introduce project of analogies, and comparing cellular organelles to real world examples of similar functions.

Procedures (38 minutes):

1. Students will use the remaining time left in the period to work on creating their own analogies for the cell for their project, due at the end of the period. If students finish their analogies early, they can begin working on extra credit in which they can: make a rap/song/poem, draw their analogy on a piece of paper, etc.

Closure (2 minutes):

1. Oral review the organelles found in eukaryotic cells.
2. "Tomorrow we are going to move beyond the organelles in a cell and start looking at processes the cell does each and every day, beginning with photosynthesis in plant cells. Remember to come to after school tutoring!"

Assessment/Evaluation:

Objective: TSW identify the organelles found in eukaryotic cells (4a DOK 2).

- Informal: 1. Students will be questioned through the lesson (M) to assess their understanding of the various organelles and their function (C).
- Formal: 1. Students will work on an analogy project (M) that assesses their ability to use analogous reasoning to understand the organelles found in a cell (C), and the grade will be recorded in a grade book. 2. Students will take a written test (M) at a later date that tests their understand of the cell organelles (C), and the grade will be recorded in a grade book (D).