

Differentiating between Plant and Animal Cells Task Card

GLE'S

(Life Science)

#2 - Compare the basic structures and functions of different types of cells (LS-M-A1)

#4 - Compare functions of plant and animal cell structures (LS-M-A2)

Introduction

Big Idea

Introduction and illustration to the plant and animal cell using comparison and contrast or differentiation methods between the two cell types.

Essential – Focus Question

What are the major differences between the plant and animal cell including the following: functions, organelles, size, and shape?

The students will discuss what cells are with their importance to living organisms using relevant background information and resources. Students will use microscopes to view samples of plant and animal cells with transparencies of enlarged cell photos.

To complete this activity you will-

Task:

- Each student will receive an assigned role
- Give assistance to other teammates with preparation of their task
- Use resources given to familiarize themselves with cellular background
- Document major differences demonstrated and discussed between the plant and animal cell
- Create a thinking map illustrating the differences between the two cells using Microsoft Office into a brochure format

Process:

- (1) Your team will work together to explain the differences between plant and animal cells.
- (2) Using the Lab Team worksheet, each member will select a role: Technology Manager, Recorder/Reporter, Photo/Graphics Manager, and Facilitator/Task Manager
- (3) Follow the directions on the plant and animal cell differentiation worksheet
- (4) Your team will design a brochure, which will include the differences of plant and animal cells incorporating a Thinking-Map Software to exhibit processes.
- (5) Utilize the product rubric as a guide to create your Microsoft Word Brochure
- (6) One expert team will be chosen to upload their Microsoft Word Thinking-Map Brochure to the school's webpage to be used as a reference for many students.

Evaluation:

- Rubric for technology product (Brochure with Thinking Map integration of cell topics)
- Thinking-Map Software usage
- Microsoft Word Brochure usage

Conclusion: Applying, Analyzing, and Evaluating Data

Constructive Response

- Students will write two paragraphs in their learning log that summarizes the differences between plant and animal cells while identifying structures (organelles) and complete the post-test assessment.