

Montessori Lesson Plan

School: The Hockessin Montessori School	Teacher: Taylor Geminetti
Subject/Topic(s): Natural World – Animal Cell	
Grade Level: 7-8	Theme: Connections
<u>Curriculum Components Included:</u> <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Mini-Whole Grp <input type="checkbox"/> Lesson-Small Grp <input checked="" type="checkbox"/> Student engagement during lesson <input checked="" type="checkbox"/> Shelfwork <input type="checkbox"/> Rubric <input checked="" type="checkbox"/> Self-Assessment <input type="checkbox"/> Seminar/Qs <input type="checkbox"/> Interdisciplinary <input type="checkbox"/> Outside Opportunity	
<u>Seven Gateways for Adolescence addressed in this lesson:</u> <input checked="" type="checkbox"/> Deep Connection <input type="checkbox"/> Silence & Solitude <input checked="" type="checkbox"/> Meaning & Purpose <input checked="" type="checkbox"/> Joy & Delight <input checked="" type="checkbox"/> Creative <input type="checkbox"/> Transcendence <input type="checkbox"/> Initiation	

<u>Standards/Objectives</u> <ul style="list-style-type: none"> MS-LS1-2. Develop and use a model to describe the function of a cell as a whole and ways the parts of cells contribute to the function. 		
<u>Materials: Teacher</u> <ul style="list-style-type: none"> Lesson instructions/notes Large animal cell picture Lesson story Cell part picture cards Cell part name cards Cell part function cards 	<u>Materials: Student</u> <ul style="list-style-type: none"> Blank picture of animal cell Activity worksheet Pencil Butter Jell-O M&M's Drano Clear container with lid Wire and beads Bouncy ball Cut rubber bands and beads Sticky tack Hot Wheels truck AAA batteries Cut straws glued as a "T" Labels for each cell part 	<u>Time/Dates</u> <ul style="list-style-type: none"> Tuesday 10/5/2021 @ 9AM
<u>Facts/Skills (Prior Knowledge)</u> <ul style="list-style-type: none"> Introduced to the animal cell 	<u>Concepts/Big Ideas</u> <ul style="list-style-type: none"> What each cell part represents and how it helps the cell function as a whole 	
<u>Lesson Relates to Theme</u> (Note: Every content lesson will not directly relate to the theme) <ul style="list-style-type: none"> <u>Connections:</u> How the cell part functions connect to one another to help each other and help the cell function as a whole. 		
<u>Connection to Elementary Material or Lesson</u> N/A		

Step-by-Step Procedures		
<u>1st Period Lesson – 20 minutes (Include steps and materials)</u> <ul style="list-style-type: none">• Step 1: bring students to lesson set up on floor• Step 2: Introduce students to topic of discussion and discover prior knowledge• Step 3: Read story of animal cell metaphor including different parts and functions, using manipulative cards as a visual representation during the story while relating them to materials they will later use for activity• Step 4: Students will take notes while listening to the story based on information they hear and see on the cards.		
<u>2nd Period – Recognition (Shelfwork)</u> <ul style="list-style-type: none">• Students will use a blank animal cell to attach cell part picture cards, cell part name cards, and cell part function cards• Check for accuracy with teacher	<u>2nd Period – Recall Practice</u> <ul style="list-style-type: none">•	
<u>3rd Period – Student Application</u> <ul style="list-style-type: none">• Students will work with a partner to create a 3-D model of the animal cell using everyday items and food		
Plan for Differentiation		
<u>Teaching</u> <ul style="list-style-type: none">• Give students a notes worksheet where they have to fill in specific words or draw pictures.	<u>Work</u> <ul style="list-style-type: none">• Student will use a picture of an animal cell with picture cards and name cards already attached; they will be responsible for attaching the function cards.	<u>Assessment</u> <ul style="list-style-type: none">• Allow students to use notes while creating their 3-D display.
<u>Outside Support: Who, What, How</u> N/A		
Formal Assessments		
<u>Formative Assessments</u> <ul style="list-style-type: none">• Homework: Students are responsible for filling in the missing information on a partially completed animal cell diagram.		
<u>Summative Assessment</u> <ul style="list-style-type: none">• Theme test at the end of the cycle.		