

Neptune Township Public Schools  
Neptune Middle School  
LESSON PLANS

<b>Teacher:</b> Ms. Lattimer	<b>Department:</b> Science
<b>Unit:</b> Cells	<b>Grade Level:</b> 8
<b>Dates:</b>	

Monday	Blocks <u>1B</u> and <u>5B</u> (Full Blocks)
	<p>Objective: SWBAT identify and explain that organisms reproduce, develop and have predictable life cycles. SWABAT explain that multicellular organisms are organized in structure and proportion.</p> <p>NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p> <p>Do Now: Write the statement of cell theory that explains cell reproduction. (All cells come from pre-existing cells)</p>
	<p>Activities:</p> <ul style="list-style-type: none"> <li>• Power Point lecture/discussion on mitosis and meiosis</li> <li>• Brief YouTube viewing of mitosis happening in a plant cell and in an animal cell.</li> <li>• Exit ticket</li> </ul> <p>Assessment:</p>
	<p>Closure: Exit Ticket "List the stages of mitosis in the correct sequence."</p> <p>Homework : n/a</p>

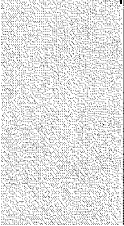

Monday	Blocks <u>1A</u> and <u>5A</u> ,... (Mini Blocks)
	<p>Objective: SWBAT explain that multicellular organisms are organized in structure and proportion.</p> <p>NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p> <p>NJCCCS: 1.1.8.D.1</p> <p>CCS: 6.RP.A1, 6.RP.A.3</p>
	<p>Activities:</p> <ul style="list-style-type: none"> <li>• Students were directed to a microscope with a prepared slide under it and required to diagram what they see.</li> <li>• Students were then directed to observe the slide on the microscope stage with their naked eye and respond to what they see when asked.</li> <li>• Students were then directed to identify an activity that they have participated in during this class in the past that is similar to today's activity. (observing lettuce and onion cells under the microscope and drawing a diagram of what they saw.)</li> <li>• Students then discussed how the magazine photos under the microscope and the</li> </ul>

	<p>magazine photos with the naked eye were similar to the viewing of the lettuce leaf</p> <ul style="list-style-type: none"> <li>• Power Point Lecture/discussion on pointillism</li> <li>• Students discussed the connection between pointillism and multicellular organism organization through proportion and ratio</li> <li>• Students began working in groups to reconstruct a multicellular organisms using the pointillism technique identifying the individual points as cells; the individual portion they were working on was a tissue; and when the group placed the individual tissue pieces together making an organ/organ system depending on the original picture.</li> </ul> <p>Assessment: ratios and proportions (parts of a whole) and multicellular organization i.e. cells yield tissues; tissues yield organs; organs work together to make organ systems.</p> <hr/> <p>Homework :n/a</p>
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<b>Tuesday</b>	<b>Blocks <u>1B</u> and <u>5B</u> (Full Blocks)</b>
	<p>Objective: SWBAT identify and explain that organisms reproduce, develop and have predictable life cycles. SWABAT explain that multicellular organisms are organized in structure and proportion.</p> <p>NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p> <p>Do Now: Write the statement of cell theory that explains cell reproduction. (All cells come from pre-existing cells)</p> <hr/> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Power Point lecture/discussion on mitosis and meiosis</li> <li>• Brief YouTube viewing of mitosis happening in a plant cell and in an animal cell.</li> <li>• Exit ticket</li> </ul> <p>Assessment:</p> <hr/> <p>Closure: Exit Ticket "List the stages of mitosis in the correct sequence."</p> <p>Homework : n/a</p>

<b>Tuesday</b>	<b>Blocks <u>1A</u> and SA (Mini Blocks)</b>
	<p>Objective: SWBAT explain that multicellular organisms are organized in structure and proportion.</p> <p>NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p> <p>NJCCCS: 1.1.8.D.1</p> <p>CCS: 6.RP.A1, 6.RP.A.3</p>
	<p>Activities:</p> <ul style="list-style-type: none"> <li>• Students continued work on their pointillism organ/organ system pieces</li> </ul> <p>Assessment: n/a</p>

<b>Wednesday</b>	<b>Blocks <u>1B</u> and <u>5B</u> (Full Blocks)</b>
	<p>Objective: SWBAT identify and explain that organisms reproduce, develop and have predictable life cycles. SWBAT explain that multicellular organisms are organized in structure and proportion.</p> <p>NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p>
	<p>Activities:</p> <ul style="list-style-type: none"> <li>• Lecture/discussion of cell changes during the specific phases of mitosis</li> <li>• Students used their notes to complete a graphic organizer explaining the specific phases of mitosis and diagrammed the changes of specific cell parts during the phases</li> </ul> <p>Assessment: graphic organizer</p>
	<p>Homework : n/a</p>

<b>Wednesday</b>	<b>Blocks <u>1B</u> and <u>SB</u> (Mini Blocks)</b>
	<p>Objective: SWBAT explain that multicellular organisms are organized in structure and proportion.            NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1            NJCCCS: 1.1.8.D.1            CCS: 6.RP.A1, 6.RP.A.3</p>
	<p>Activities: Students continued work on their pointillism pieces.</p>
	<p>Homework : n/a</p>

<b>Thursday</b>	<b>Blocks <u>1A</u> and <u>5A</u> (Full Blocks)</b>
	<p>Objective: SWBAT identify and explain that organisms reproduce, develop and have predictable life cycles. SWABAT explain that multicellular organisms are organized in structure and proportion.            NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p>

	<p>Activities:</p> <ul style="list-style-type: none"> <li>• Do Now: Complete the T-Chart graphic organizer contrasting Mitosis and Meiosis</li> <li>• Oral review and discussion of Do Now</li> <li>• Completion of Mitosis vs. Meiosis review packet</li> </ul> <p>Assessment: Oral Review and discussion of review packet of Mitosis vs. Meiosis</p>
	<p>Homework : n/a</p>

<b>Thursday</b>	<p><b>BlockS . IB . ___ and SB (Mini Blocks)</b></p> <p>Objective: SWBAT explain that multicellular organisms are organized in structure and proportion.  NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1  NJCCCS: 1.1.8.D.1  CCS: 6.RP.A1, 6.RP.A.3</p>
	<p>Activities: Students continued work on their pointillism pieces.</p>
	<p>Homework : n/a</p>

<b>Friday</b>	<p><b>Blocks . . 1A . . 5A (Full Blocks)</b></p> <p>Objective: SWBAT identify and explain that organisms reproduce, develop and have predictable life cycles. SWABAT explain that multicellular organisms are organized in structure and proportion.  NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1</p>
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	Weekly Quiz
	Closure: n/a
	Homework : n/a

<b>Friday</b>	<b>Blocks <u>1B</u> and <u>5B</u> (Mini Blocks)</b>
	Objective: SWBAT identify and explain that organisms reproduce, develop and have predictable life cycles. SWABAT explain that multicellular organisms are organized in structure and proportion.
	NJCCCS: 5.1, 5.3, 5.3.A.1, 5.3.8.A.2, 5.3.8.D.1
	Weekly Quiz
	Closure: n/a
	Homework : n/a