

Unit 2 Cells- Processes and Reproduction

**ESTABLISHED GOALS (CCSS)**

7.S 1.1 Understand Systems, order and Organization  
 7.S.1.2 Understand Concepts and processes of Evidence, Models, and Explanations  
 7.S.1.8 Understand Technical Communication  
 7.S.1.3 Understand Constancy, Change, and Measurement  
 7.S 3.2 Understand the Relationship between Matter and Energy in Living Systems  
 7.S.3.3 Understand the Cell is the Basis of Form and Function for All Living Things  
 7.S.5.2 Understand the Relationship between Science and Technology  
 CCSS Writing Standards 1-10  
 CCSS Reading Standards 1-10

**Transfer**

**Students will be able to independently use their learning to...**  
 Identify the names and functions of the parts of a cell and describe the stages of mitosis and meiosis.

**Meaning**

**UNDERSTANDINGS**

**Students will understand that...**

Cells are the basic unit/structure of life

Cells build tissue, tissues build organs, organs build organ system and systems make an organism.

Microscopes all work in generally the same way

Mitosis and Meiosis are different processes in a cell

**ESSENTIAL QUESTIONS:**

How are plant and animal cells the same and different in structure and function?

Why photosynthesis is important to life?

**Acquisition**

**Students will know...**

Cells are the basic unit of life.

All living things are made of cells

New cells can only be made from old cells dividing in two

How molecules move through cells through diffusion

The equation for photosynthesis and respiration

The difference between mitosis and meiosis

**Students will be skilled at...**

Identifying and describing the organelles of a cell.

Labeling parts of a cell

Using a microscope to find organisms on a slide

Discussing the relationship between photosynthesis and cellular respiration.

Labeling the equation for photosynthesis and respiration

Presenting the organelles in the cells and telling the functions of each

<b>Stage 2 - Evidence</b>				
<b>Evaluative Criteria</b>	<b>Assessment Evidence</b>			
<b>PERFORMANCE TASKS</b>	<b>CURRICULUM EMBEDDED PERFORMANCE ASSESSMENT (PERFORMANCE TASKS):</b> The student will create a poster comparing a cell to something in the community. (analogy) The student will then present there poster to the class.			
	<b>OTHER EVIDENCE:</b> Daily work Notes Vocabulary practice Diagrams Tests Lab work on cell Class discussions Graphic organizers			
<b>CLAIMS</b>	<b>CLAIM 1</b>	<b>CLAIM 2</b>	<b>CLAIM 3</b>	<b>CLAIM 4</b>
<b>DEPTH OF KNOWLEDGE LEVELS</b>	<b>DOK 1</b>	<b>DOK2</b>	<b>DOK 3</b>	<b>DOK4</b>
<b>ACHIEVEMENT LEVEL DESCRIPTORS</b>	<b>ALD 1</b>	<b>ALD 2</b>	<b>ALD 3</b>	<b>ALD 4</b>
<b>Stage 3 – Learning Plan</b>				
<i>Summary of Key Learning Events and Instruction</i>	Individual Lesson plans			



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