

**Mrs. Patterson
Life Science**

Key Learning: Cells, tissues, organs, and organ systems all have specific structures and functions.

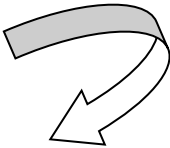
Student Learning Map

Unit: 4

Topic: Cells


Subject Area:
Science 7th

Unit Essential Question: How are cells, tissues, organs, and organ systems structured and what are their functions?



Concept: Cell structure	Concept: Cell functions	Concept: Levels of cellular organization	Concept: Cell processes	Concept: Organ systems	Concept:
State Standard(s): S7L2.A	State Standard(s): S7L2.A	State Standard(s): S7L2.B	State Standard(s): S7L2.A	State Standard(s): S7L2.C	State Standard(s):

Lesson Essential Question: How are plant and animal cells structured?	Lesson Essential Question: What are the functions of the various cell parts?	Lesson Essential Question: What are the levels of cellular organization?	Lesson Essential Question: How do cells obtain energy and material to carry out life processes?	Lesson Essential Question: What is the purpose of the major organ systems in the human body? (digestive, respiration, circulation, excretory, skeletal, muscular, nervous, lymphatic, endocrine and reproductive)	Lesson Essential Question:
Extended Learning:	Extended Learning:	Extended Learning:	Extended Learning:	Extended Learning:	Extended Learning:



Vocabulary: Cell Unicellular Multicellular Microscope Bacteria	Vocabulary: Specialization Eukaryotic Cell Prokaryotic Cell Organelle Cell Wall Cell Membrane Nucleus Chloroplast Cytoplasm Mitochondria	Vocabulary: Tissue Organ Organ System Organism	Vocabulary: Photosynthesis Chlorophyll Cellular Respiration Fermentation Active Transport Passive Transport Osmosis Diffusion	Vocabulary: digestive, respiration, circulation, excretory, skeletal, muscular, nervous, lymphatic, endocrine and reproductive	Vocabulary:
--	---	---	--	---	--------------------

Example(s) of Assessment Item(s): Which technology was important to the development of the cell theory? A. computer B. scientific model C. microscope D. refrigeration	Example(s) of Assessment Item(s): What structure does a plant cell have that is not found in an animal cell and that allows a plant cell to capture energy from the Sun?	Example(s) of Assessment Item(s): Complex organisms have four levels of cell organization. List these levels of cell organization from simplest to most complex. Define each of the four levels of cell organization. Provide at least one animal example for each level.	Example(s) of Assessment Item(s): Which process occurs in chloroplast? The movement of material across a cell membrane, requiring energy, is called A. diffusion B. osmosis C. passive transport D. active transport	Example(s) of Assessment Item(s): Which two systems work together to enable you to bend your arm?	Example(s) of Assessment Item(s):
--	--	--	---	---	--

Forms of Assessments: Vocabulary Test Oral questions Additional Information:	Forms of Assessments: Vocabulary Test Oral questions Cell analogies Cell Book Cell Puzzles Additional Information:	Forms of Assessments: Vocabulary Test Oral questions Additional Information:	Forms of Assessments: Vocabulary Test Oral questions Manipulatives Labs Additional Information:	Forms of Assessments: Vocabulary Test Oral questions Human Body Project Additional Information:	Forms of Assessments: Additional Information:
---	--	---	--	---	--

