OVERVIEW:

Topic 1.3 (but not concept 2)

LEARNING MAP CRITERIA: LIFE PROCESSES ARE PERFORMED AT THE CELLULAR LEVEL

Relevance	Extending	Proficient	Developing	Emerging
	Discuss the interrelationships of basic cell components and organelles (e.g. how the cell membrane and cell wall work together to protect and support the cell; why ribosomes are often stuck to the ER).	Independently label and describe the functions of cell structures, with a high degree of accuracy.	Label and describe the functions of cell structures with some accuracy. Define organelle and list or match examples of organelles.	Understand that the cell is the basic unit of living things and must exhibit the 7 characteristics of living things.
	Evaluate how a cell will be affected by increasing or decreasing the number of a specific organelle. Infer, based on the function of a specialized cell, how its organelles will be affected. (e.g. why does a muscle cell have more mitochondria? Why don't onion cells have chloroplasts?)			
	Synthesize own knowledge about prokaryotes and eukaryotes with new information, to evaluate the plausibility of the endosymbiont hypothesis.	Compare and contrast prokaryotic and eukaryotic cells. Given information about a cell, identify whether it is prokaryotic or eukaryotic.	Compare and contrast prokaryotic and eukaryotic cells generally (size and complexity).	
(is more relevant to the analogy assignment)	Construct a sophisticated and comprehensive analogy of basic cell components and organelles.	Construct a suitable analogy of basic cell components and organelles.	Given a list of choices, identify the elements of an analogy that best match with a specific cell structure or organelle. Can explain decisions with some success, while using proper vocabulary.	
	Compare and contrast plant and animal cells based on their morphology, function, and cellular processes. Explain the importance of photosynthesis and cellular respiration. Recognize the bigger-picture implications of one or both of these processes being disrupted (How would it affect the cell? A food web? An ecosystem? The globe?).	Make a simplistic comparison between plant and animal cells based on their components. List the inputs and outputs of photosynthesis and cellular respiration. Describe how they are part of a cycle.	Identify plant and animal cells based on their shape and general features. Identify the organelles and cell types (plant vs animal) that photosynthesis and cellular respiration take place in.	Identify plant and animal organisms.

VOCABULARY:

(Disclaimer: This is not meant to be an exhaustive list. Vocabulary words may appear on the test that are not in this list.)

- Review Terms:
 - o Unicellular
 - o Multicellular
 - o Bacteria
 - Producer
 - Nutrient
 - o Waste
 - Prokaryote
- Eukaryote

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- Organelle
- Cell membrane
- Cell wall
- Cytoplasm
- Cytoplasm
- Ribosome
- Protein
 - Nucleus
 - DNA

- Chloroplast
- Mitochondria
- Vacuole
- Lysosome
- Endoplasmic reticulum
- Photosynthesis
- Cellular respiration

PRIMARY STUDY MATERIAL:

- Powerpoint (1.3) on weebly website + any in-class notes
- Textbook pg. 26-27, 29-31
- Practice:
 - Worksheets:
 - Colouring diagram
 - Organelle matching
 - Textbook questions
 - Workbook questions