Benchmark Mastery Study Guide

SC.912.L.14.4 Microscopes

SC.912.L.14.1Describe the scientific theory of cells (cell theory) & relate the history of its discovery to the process of science.

SC.912.L.14.3 Compare and contrast the general structures of plant and animal cells. compare and contrast the general structures of prokaryotic and eukaryotic cells

Learning Goal

Level 1	Level 2	Level 3	Level 4
*With help, partial success at score 2.0 content & score 3.0 content	I can... *Define each vocabulary word in this unit *Compare and Contrast Eukaryotes and Prokaryotes • Compare and contrast plant and animal cells • * Identify structures and functions	I can… • Explain how advances in technology, microscopes, led to the cell theory • Distinguish between prokaryote and eukaryotes • Explain how the structure of an organelle helps its function in both plant and animal cells	I can… *Design a model to teach structure and function of organelles in a plant cell

Designates target area for testing

Summative Assessment will be administered:

Date: Friday, Oct. 12th

HOMEWORK: Read, and create two column notes. (Follow template) We will use the following pages below from your Science textbook to learn the standards.

(These Dates Do Not Change)

Place completed homework in your binder.

Use this sheet to manage your time.

Excuses for incomplete homework will not be accepted

You will have a quiz after reading each lesson above. You will be permitted to use your two column notes. (There are no quiz corrections)

_____ *8.1 Life is Cellular (p.242-247) Due: Tues. Oct. 2nd

_____ *8.2 Cell Structure (p. 248-257) Due: Fri. Oct. 5th

_____ Build a model of a plant cell. Label each organelle and be ready to describe each organelle function.
Student Presentations Due: Wed. Oct 10th

Record the number you earned for each quiz on its line.

See SCHOOLOGY for resources.

Access Schoology:
http://stjohnsschools.schoology.com/
Username: The letter s with student number followed by @stjohns.k12.fl.us
Password:

ELEMENTS	0=F	1=D	C=2	3=B	4=A
1. Define: Light microscope, transmission electron microscope, scanning electron microscope, cell, cell theory, cell membrane, nucleus, eukaryote, prokaryote, cytoplasm, organelle, vacuole, lysosome, cytoskeleton, centriole, ribosome, endoplasmic reticulum, Golgi apparatus, chloroplast, mitochondrion, cell wall, lipid bilayer, selectively permeable					
2. Compare and Contrast light, transmission electron microscopes, and scanning electron microscopes					
3. Describe the components of Cell theory					
4. Compare and contrast prokaryotic and eukaryotic cells					
5. Describe the structure and function of organelles in plant and animal cells					

You must include a minimum of three <u>dates</u> for each element until you reach a level B.

Report to Mrs. Willis in H-105 for extra help and support Tuesday and Thursday 1:01 – 1:31

If you have incomplete notes you will not qualify for grade recovery

Student Name: _____

What did I do to prepare: Circle all that apply: *Tracked learning, Two Column Notes, Viewed Power Point in Quizlet, Study Island, Schoology, Other:*

_____

Predict your grade:_____ Record your actual grade: _____

Analyze: _____

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