

## Benchmark Mastery Study Guide

SC.912.L.14.7 Relate the structure of each of the major plant organs and tissues to physiological process  
SC.912.L.18.7 Identify the reactants, products, and basic functions of photosynthesis  
SC.912.L.18.8 Identify the reactants, products, and basic functions of aerobic & anaerobic cellular respiration  
SC.912.L.18.9 Explain the interrelated nature of photosynthesis & cellular respiration

### 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  * Identify the plant organs and tissues  *Identify the reactants, products and basic functions of photosynthesis and cellular respiration	I can...  * Relate the structure of each of the major plant organs and tissues to physiological processes  * Explain the interrelated nature of photosynthesis & cellular respiration	I can...  * Analyze and Make Predictions based upon data related to plant structures

Summative Assessment will be administered:

Date: Thursday, March 25<sup>th</sup>

### HOMEWORK:

Mark the text, including the figures, read, and create two column notes.

We will use the following pages below from your Science textbook to learn the benchmarks.

**(These Dates Do Not Change)**

***Check the box after each homework assignment is completed. Include you final grade for each quiz on the line.***

- ☐ \* \_\_\_\_\_ 23.1 Roots, Stems, and Leaves (p. 762- 769 Due: Fri. March 5th  
☐ \* \_\_\_\_\_ 23.1 Roots, Stems and Leaves (p. 770- 775) Due: Tues. March 9th  
☐ \* \_\_\_\_\_ 22.3 Flowers, Fruits, and Seeds (p. 737-742) Due: Thur. March 11th  
☐ \* \_\_\_\_\_ 22.3 Flowers, Fruits, and Seeds ( p. 743-749) Due: Tues. March 16<sup>th</sup>

☐ **SPRING BREAK March 17<sup>th</sup> – March 21<sup>st</sup>**

***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)***

See SCHOOLGY for resources.

Access Schoology:

<http://stjohnsschools.schoology.com/>

Username: The letter s with student number followed by @stjohns.k12.fl.us

Password:

Elements	0-59%		60-69%		70-79%		80-89%★		90-100%	
1. I can <b>Define:</b> root, stem, leaves, dermal tissue, vascular tissue, ground tissue, meristem, cambium, angiosperm, monocot, dicot, stamen, anther, filament, pollen, sperm, pistil, carpel, stigma, style, ovary, ovules, seed, seed coat, embryo, cotyledon, double fertilization, endosperm, stoma, guard cell, transpiration, capillary action, photosynthesis, reactant, product, cellular respiration, aerobic, anaerobic										
2. I can <b>Describe:</b> the major organs and function of plant: root; stem; leaves										
3. I can <b>Describe;</b> the functions of the three major tissues found in plants: dermal; vascular; ground										
4. I can <b>Explain</b> the function of vascular tissue; phloem and xylem										
5. I can <b>Describe</b> the location and function of the reproductive structures in angiosperms										
6. I can <b>Explain:</b> the process of photosynthesis; including the responsible organelle, reactants, products and the chemical formula										
7. I can <b>Explain:</b> the process of cellular respiration; including the responsible organelle, reactants, products and chemical formula										
8. I can <b>Explain: how photosynthesis and cellular respiration are interrelated</b>										
9. I can <b>Explain how photosynthesis uses an anaerobic process and cellular respiration uses an aerobic process</b>										

Target Area ★

**IF YOU HAVE INCOMPLETE HOMEWORK YOU DO 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 Schoology, Quizlet, Other:* \_\_\_\_\_

Predict your percentage for the summative exam: \_\_\_\_\_

Record your actual grade: \_\_\_\_\_

**Reflection: (I need to...)**

**What is your current understanding? Record a date under the percentage that correlates with your current knowledge. You must have a minimum of three dates for each element.**