Honors Benchmark Mastery Study Guide

SC.912.L.17.9 Use a food web to identify and distinguish producers, consumers, and decomposers. Explain the pathway of energy transfer through trophic levels and the reduction of available energy at successive trophic levels
SC.912.L.17.2 Explain the general distribution of life in aquatic systems as a function of chemistry, geography, light, depths, salinity, and temperature

SC.912.E.7.1 Analyze the movement of matter and energy through the different biogeochemical cycles; including water and carbon

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 key components of a food web *List the general distribution of life in aquatic ecosystems *Identify parts of biogeochemical cycles	I can… * **Explain** the flow of energy through an ecosystem, using an energy pyramid and trophic levels ***Explain** the general distribution of life in aquatic systems ***Diagram and Describe:** Earth's hydrologic and carbon cycles	I can… * Analyze how events can impact ecosystems

Summative Assessment will be administered:

Date: Thursday, April 14th

View the Power Point Lesson: Food chains and Food webs in Schoology
Read and create two column notes for each lesson below.
Complete the Online Two Column Notes Quiz for the lesson in Schoology

Check the box after each homework assignment is completed. Include your raw score for each quiz on the line.

- ❑ *_____ 13.3 Energy in Ecosystems (p. 398-399) Due: Fri. April 1st
- ❑ *_____ 13.4 Food Chains and Food Webs (p. 400-403) Due: Mon. April 4th
- ❑ *_____ 13.5 Cycling of Matter (p.404-410) Due: Thur. April 7th
- ❑ *_____ 15.4 Marine Ecosystems (458-460) Due: Mon. April 11th

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 SCHOOLOGY for resources.

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

Elements	0-59%		60-69%		70-79%		80-89%		90-100%	
1. I can Define: biosphere, species, population, community, ecology, ecosystem, biome, biotic factor, abiotic factor, autotroph, primary producer, heterotroph, consumer, carnivore, herbivore, scavenger, omnivore, decomposer, detritivore, food chain, phytoplankton, food web, zooplankton, trophic level, ecological pyramid, biomass, photic zone, aphotic zone, benthos, plankton, nekton, intertidal, neritic, oceanic, salinity, biogeochemical cycle										
2. I can distinguish between abiotic and biotic factors in an ecosystem.										
2. I can **use** a food web to **describe** the role of producers, consumers and decomposers.										
3. I can **describe** the trophic levels of a food chain.										
4. I can **describe and calculate** the 10% rule **of** how energy flows through an ecosystem.										
5. I can **describe** how a change in one factor in an ecosystem can affect others.										
6. I can **diagram and describe: how water and carbon cycles through earth's systems**										
7. I can **Explain** the general distribution of life in aquatic systems as a function of chemistry, geography, light, depths, salinity, and temperature.										

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…)

_____

_____

_____

_____

_____

_____

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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.