

Honors Benchmark Mastery Study Guide

SC. 912.L.16.14 Describe the cell cycle, including the process of mitosis. Explain the role of mitosis in the formation of new cells & its importance in maintaining chromosome number during asexual reproduction.

SC.912.L.16.16 Describe the process of meiosis, including independent assortment & crossing over. Explain how reduction division results in the formation of haploid gametes or spores

SC.912.L.16.17 Compare and contrast mitosis & meiosis & relate to the processes of sexual & asexual reproduction & their consequences for genetic variation

Learning Goal

Level 1	Level 2	Level 3	Level 4
With help, partial success at score 2.0 content & score 3.0 conte	I can... *Define each vocabulary word in this unit * Identify the stages of Cell growth * Identify the stages of mitosis and meiosis	I can... <ul style="list-style-type: none">Describe the cell cycleDescribe the stages of mitosisDescribe the stages of meiosisExplain independent assortment and crossing-overExplain how cell division is affected by mutations	I can... * Design models of Cell Division

Summative Assessment will be administered:

Date: Thursday, January 7th

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 above benchmarks.

(These Dates Do Not Change)

Record the number of questions correct for each quiz on the lines below:

Parent should initialize that you have shared with them your completed notes. If you have not completed a homework assignment write make-up on the line. If you have placed the quiz and notes in the red bin, write BIN on the line.

☐ _____ *5.1 The Cell Cycle p. 130-133 Due: Mon. Dec. 7th

☐ _____ * 5.2 Mitosis and Cytokinesis p. 134- 138 Due Thursday, Dec. 10th

☐ _____ *5.3 Regulation of the Cell Cycle p. 140-143 Mon. Dec. 14th

☐ _____ * 6.1 Chromosomes and Meiosis p. 162-165 Wed. Dec. 16th

☐ _____ * Meiosis Model Presentation Due: Fri. Dec. 18th

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	Less-50%		60-69%		70-79%		80-99%★		90-100%	
1. I can Define : cell division, asexual reproduction, sexual reproduction, chromosome, chromatin, cell cycle, interphase, mitosis, cytokinesis, prophase, centromere, chromatid, centriole, metaphase, anaphase, telophase, homologous, diploid, haploid, meiosis, tetrad, crossing-over, zygote,										
2. I can Describe each step and function of the cell cycle										
3. I can Differentiate between asexual and sexual reproduction										
4. I can Describe each step and function of mitosis in somatic cells as asexual reproduction										
5. I can Describe each step and function of meiosis in germ cells as sexual reproduction										
6. I can Explain crossing over and independent assortment										
7. I can Explain independent assortment										
8. I can Compare and Contrast mitosis and meiosis as it relates to asexual and sexual reproduction										

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 grade the correlates with your current knowledge. You must have a minimum of three dates if you have not reached a level of 3 or higher.