

## 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...<br>*Define each vocabulary word in this unit<br>* Identify the stages of Cell growth<br><br>* Identify the stages of mitosis and meiosis | I can...<br>• Describe the cell cycle<br><br>• Describe the stages of mitosis<br><br>• Describe the stages of meiosis<br><br>• Explain independent assortment and crossing-over<br><br>• Explain how cell division is affected by mutations | I can...<br><br>* Design models of Cell Division |

**Summative Assessment will be administered:**

**Date: Tuesday, Nov. 26th**

### **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.**

\_\_\_\_\_ \*11.1 Cell Growth, Division, and Reproduction (p. 338-342) Due: Nov. 14th

\_\_\_\_\_ \*11.2 The Process of Cell Division (p. 343-348) Due: Nov. 18th

\_\_\_\_\_ \*12.4 Meiosis (p. 393-399) Due: Nov. 20th

\_\_\_\_\_ \* Build a model that shows the process of Meiosis Due: Nov. 22nd

***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:**

