

Honors Benchmark Mastery Study Guide

SC.912.L.16.3 Describe the basic process of DNA replication & how it relates to the transmission & conservation of the genetic information

SC.912.L.16.5 Explain the basic processes of transcription & translation, & how they result in the expression of genes

SC.912.L.16.4 Assessed as SC.912.L.16.3

Explain how mutations in the DNA sequence may or may not result in phenotypic change.

Explain how mutations in gametes may result in phenotypic changes in offspring

Learning Goal

Summative Assessment will be administered:

Date: Thursday, Nov. 18th

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)

Place completed homework in your binder

Record your quiz score for each lesson.

_____ 8.2 Structure of DNA p. 220-223 Due: Fri. Oct. 29th

_____ 8.3 DNA Replication p. 225-228 Due: Tue. Nov. 2nd

_____ 8.4 Transcription p. 229-232 Due: Fri. Nov. 5th

_____ 8.5 Translation p. 233-237 Due: Tue. Nov. 9th

_____ 8.7 Mutations p. 244-247 Due: Fri. Nov. 12th

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:

Level 1	Level 2	Level 3	Level 4
With help, partial success at score 2.0 content & score 3.0 content	<p>I can...</p> <ul style="list-style-type: none"> *Define each vocabulary word in this unit * Identify a structure of DNA and RNA *Identify the steps for DNA replication * Compare and contrast transcription and translation 	<p>I can...</p> <ul style="list-style-type: none"> • Explain the steps for DNA replication • Explain the steps related to transcription • Explain the steps related to translation • Explain the how mutations in the DNA sequence result in phenotypic changes 	<p>I can...</p> <ul style="list-style-type: none"> *Design a model of DNA *Analyze how transcription effects gene expression * Analyze how translation effects gene expression

