SC.912.L.16.1 Use Mendel's laws of segregation and independent assortment to analyze patterns of inheritance.

SC.912.L.16.2 Discuss observed inheritance patterns caused by various modes of inheritance, including dominant, recessive, codominant, sex-linked, polygenic and multiple alleles

## Learning Goal

Level 1	Level 2	Level 3	Level 4
With or without help I can	l can	I can	I can
	<ul> <li>*Explain how probability can be used to predict traits</li> <li>*Use a punnett square to determine percentages, ratios and fractions of traits</li> <li>*Compare and contrast incomplete dominance and codominance</li> <li>* Compare and contrast phenotype and genotype</li> <li>*Distinguish between a</li> </ul>	* Design Punnett squares to predict and analyze phenotype and genotypes of organisms	
		monohybrid and a dihybrid * <b>Explain</b> how pedigrees can be used to analyze human inheritance	

#### Summative Assessment will be administered:

Date: Monday, January 22nd

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 your quiz grade on each line below

- \*11.1 The Work of Gregor Mendel (p. 308-312) Due: Jan 9th
- \*11.2 Applying Mendel's Principles (p. 313- 318) Due: Jan 11 th
  - \*11.3 Other Patterns of Inheritance (p. 319- 321) Due: Jan 16th
  - \_\_\_\_\_\* 14.1 Human Chromosomes (p. 392- 397) Due: Jan 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 EDMODO for resources.

Accessing your online science textbook: go to <u>http://teachers.stjohns.k12.fl.us/willis-t/</u> click on online textbook

### Username: 55 + Student Number

Password: *Capitalized First and Last Initial\* + Full Birthdate in Numeric Form.* Example: Student John Smith who was born on March 5, 2002 would have a

ELEMENTS	0=F	1=D	C=2	3=B	4=A	
<b>1. Define</b> : genetics, fertilization, trait, hybrid, gene, allele, principle of dominance, segregation, gamete, probability, homozygous, heterozygous, phenotype, genotype, Punnett square, independent assortment, incomplete dominance, codominance, multiple allele, polygenic trait, genome, karyotype, sex chromosome, autosome, sex-linked gene, pedigree						
<b>2. Explain</b> how probability can be used to predict traits						l
3. Use a punnett square to determine percentages, ratios and fractions of traits						R C S
<b>4. Compare and contrast</b> incomplete dominance and codominance						St
5. <b>Compare and contrast</b> phenotype and genotype						<b>W</b> let
<b>6. Distinguis</b> h between a monohybrid and a dihybrid						Qı
<b>7. Explain</b> how pedigrees can be used to analyze human inheritance						Pre

EXCEL SESSION B					
Tues.	Thurs.				

**NA/\*11\*** •

# IF YOU HAVE INCOMPLETE HOMEWORK YOU DO NOT QUALIFY FOR GRADE RECOVERY.

Grade Recovery will be administered on Tuesday and Thursday during Excel Session B

Student Name: \_\_\_\_\_

What did I do to prepare: Circle all that apply: *Tracked* learning, Two Column Notes, Viewed Power Point in Schoology, Quizlet, Study Island, Other: \_\_\_\_\_

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

Analyze: \_\_\_\_\_

You must include a minimum of three dates for each element until you reach a level B