2014-15 LESSON "SNAPSHOT"

Teacher's Name: S. Sutherland **Week of: April 27, 2015**
Course Title and Periods Taught: Bio B – 2nd-5th Periods **Unit Title: Introduction to Genetics**

List daily lesson topic and Depth of Knowledge:	List **learning target** and briefly outline lesson activities/agenda *(related to Core Academic Standard)*:	**Record your answers to the prompts below.**	**Reflection: Must write at least one full sentence daily.**
Monday (Day 1) Lesson Topic: Genetics Critical Vocab: See attached	Agenda: I can compare and contract mitosis and meiosis. I can define and provide an example of various genetics vocabulary terms. Procedure: 1. Bell Ringer 2. Discussion: Mitosis vs Meiosis activity 3. Lecture: Genetics Terms to Mendel 4. Reflection and Exit	Bell Ringer: Cellular Basis of Life	Reflection:
Tuesday Lesson Topic: Intro to Genetics Critical Vocab: See attached list	Agenda: I can discuss the contributions of Mendel to genetics study. I can describe the basic mechanisms of plant processes. I can explain the function of unique plant structures. Procedure: 1. Bell Ringer 2. Lecture: Parts of a Flower 3. Activity: Plant Dissection 4. Reflection and Exit	Bell Ringer: EOC Quiz 13	Reflection:
Wednesday Lesson Topic: Genetics Critical Vocab: See attached list	Agenda: I can identify and explain Mendel's laws of segration and independent assortment. I can construct and interpret Punnett squares. Procedure: 1. Bell Ringer 2. Lecture: Mendel's Peas and Punnett Squares 3. Activity: Oompah Loompah Genetics 4. Reflection and Exit	Bell Ringer: Cell Organelles	Reflection:

Please post completed form for each course you teach weekly. (Updated 12/06/10)

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Thursday Lesson Topic: Genetics Critical Vocab: See attached list	Agenda: I can constructe and interpret Punnett squates.\ I can recall and apply my knowledge over genetics terms to prepare for my vocabulary quiz. Procedure: 1. Bell Ringer 2. Activity: Sponge Bob Dihybrid Crosses 3. Activity: Quiz, quiz, trade: Vocabulary quiz 4. Reflection and Exit	Bell Ringer: Quiz 14	Reflection:
Friday Lesson Topic: Cell Division Critical Vocab: See attached list	Agenda: I can recall and apply my knowledge over genetics terms to successfully complete my vocabulary quiz. Procedure: 1. Bell Ringer: Vocabulary Quiz 2. Partners: Open Book Practice Quiz 3. Discussion: Sponge Bob Genetics (if needed)	Bell Ringer: Vocabulary Quiz	Reflection:

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Genetics	Transformation	Mutation
Gregor Mendel	Frederick Griffith	Point mutation
Fertilization	Oswald Avery	Frameshift mutation
True-breeding	Hershey and Chase	Polyploidy
Trait	Bacteriophage	Karyotype
Hybrid	Nucleotide	Sex chromosome
Gene	Erwin Chargaff	Autosome
Allele	Rosalind Franklin	Pedigree
Segregation	Watson and Crick	Sex linked gene
Gamete	Purine	Nondisjunction
Probability	Pyrimidines	Down's syndrome
Punnett square	Base pairing	Sickle cell anemia
Homozygous	Chromatin	Turner's syndrome
Heterozygous	Histone	Klinefelter's syndrome
Phenotype	Replication	PKU
Genotype	DNA polymerase	
Independent assortment	mRNA	
Incomplete dominance	rRNA	
Codominance	tRNA	
Homologous	transcription	
Diploid	RNA polymerase	
Haploid	Promoter	
Meiosis	Intron	
Tetrad	Exon	
Crossing over	Codon	
	Translation	
	Anticodon	