

Name: _____		Period: _____		Date: _____			
<b>Learning Objectives</b>					Pre – Assessment	Mid – Assessment	Post – Assessment
<b>Chapter 7: Mendelian Genetics</b>							
Standard Students Know:	Learning Objective						
<p>3.a Students know how to predict the probable outcome of phenotype in a genetic cross from the genotype of the parents and mode of inheritance.</p> <p>7.b Students know why alleles that are lethal in a homozygous individual may be carried in a heterozygous and thus maintained in a gene pool.</p> <p>HS-LS3-2 Make and defend a claim based on evidence that inheritable genetic variations may result from: (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors.</p> <p>HS-LS3-3 Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.</p> <p>3.d Students know how to use data on frequency of recombination at meiosis to estimate distance between loci and to interpret genetic maps of chromosomes.</p> <p>3.c Students know how to predict the probably mode of inheritance from a pedigree diagram showing phenotypes</p>	What is a carrier?						
	What is a sex-linked (X-linked) gene?						
	What is x chromosome inactivation?						
	How many copies of each autosomal gene affect phenotype?						
	What is incomplete dominance?						
	What is codominance?						
	What is a polygenic trait?						
	How does environmental factors interact with phenotypes?						
	What is a linkage map?						
	What is a pedigree? How is it used?						
	What is a karyotype?						
	How can a karyotype be used to identify genetic disorders?						
	<p><b>To assess yourself use the following scale:</b></p> <p><b>1) I have never heard of this concept</b>  <b>2) I have heard of this concept</b>  <b>3) I completely understand this concept</b></p>						

Chapter Summary:

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