Name:	Period: Date:		T	1
		ment	ment	ment
Learning Objectives		Assessment	Assessment	Post - Assessment
Chapter 6: Geneti	cs	Pre -	Mid	Post -
Standard Students Know:	Learning Objective	1	2	3
2.a - meiosis is an early step in sexual reproduction in which pairs of chromosomes separate and segregate randomly during cell division to produce gametes containing one chromosome of each type 2.b - only certain cells in multicellular organisms undergo meiosis 2.c - how random chromosomes segregation explains the probability that a particular allele will be in a gamete. 2.d new combinations of alleles may be generated in a zygote through the fusion of male and female gametes (fertilization). 2.e - why approximately half of an individual's DNA sequence comes from each parent. 2.f - the role of chromosomes in determining an individual sex. 2. g - how to predict possible combinations of alleles in a zygote from genetic makeup of the parents.  3.a - how to predict the probable outcome of phenotypes in a genetic cross from the genotype of the parents and mode of inheritance 3.b - the genetic basis for Mendel's laws of segregation and independent assortment  NGSS HS-LS3-2: Make and defend a claim based on evidence that inheritable genetic variations may result from: (1) new genetic combinations through meiosis HS-LS3-3: Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.	What are autosomes? What are sex chromosomes?			
	What is a <b>diploid</b> cells? I can give examples of <b>diploid</b> cells.			
	What are <b>haploid</b> cells? I can give examples of <b>haploid</b> cells.			
	Differentiate between body cells and sex cells (gametes)			
	What is <b>Meiosis</b> ? How many rounds does it go through?			
	Compare and contrast the two rounds of divisions in <b>Meiosis</b>			
	How sexual reproduction creates unique gene combinations?			
	How does crossing over during meiosis increases genetic diversity?			
	Who is Gregor Mendel?			
	Summarize Mendel's Laws of segregation			
	What is a <b>purebred</b> ? What happens when you <b>cross</b> purebreds?			
	Explain how there can be many versions of one <b>gene</b> .			
	Describe how genes influence the development of <b>traits</b>			
	What is a monohybrid cross? What is a dihybrid cross?			
	What is the law of independent assortment?			
	Explain how heredity can be illustrated mathematically			
	1) I have never heard of this conce	pt	I	
To assess yourself use the following scale:	<ul><li>2) I have heard of this concept</li><li>3) I completely understand this con</li></ul>	ncel	pt	