

**EXAM EXPECTATIONS**  
**AP Biology**  
**“Unit 9 Genetics”**

**DISCUSS** independent assortment  
**DISCUSS** crossing over  
**DISCUSS** law of segregation  
**EXPLAIN** independent assortment  
**EXPLAIN** crossing over  
**EXPLAIN** law of segregation  
**EXPLAIN** gene linkage  
**EXPLAIN** how sex generates variation in the population  
**EXPLAIN** the significance of a 50% recombination frequency  
**DEDUCE** the number of chromosomes or chromatids in different cells from a given diploid or haploid #  
**DEDUCE** the ploidy number in gametes when nondisjunction occurs in given place during meiosis  
**DETERMINE** the number of chromatids or chromosomes in one phase of cell division when given the number of chromatids or chromosomes from another phase of cell division  
**DETERMINE** the relative frequency of recombination between two genes when given a gene map  
**DETERMINE** the gene frequency / gene map from given recombination frequencies  
**ANALYZE** a gene map