7.1 Power Notes

Autosomes				Sex Chromosomes			
Autosomes are: All chromosomes other than sex chromosomes; Do not directly determine an organism's sex				Sex chromosomes are: Chromosomes that determine an organism's sex			
Autosomal gene expression: Two alleles that interact to produce a phenotypic trait;				Inheritance of sex chromosomes: Punnett Square should indicate that females (XX) can only pass on an X chromosome and males (XY) can only pass on either one X or one Y chromosome			
					X	×	
Inheritance of autosomes: Punnett Square should demonstrate that inheritance occurs according to Mendel's rules, one allele from each parent				×	xx	xx	
				У	ХУ	ХУ	
	Q Q		Q	Expression of sex-linked genes in males: All sex-linked genes are expressed because is no second			
9	Qq	Qq		allele that could mask the first allele; Expression of sex-linked genes in females:			
q	Qq	Qq					
				Similar to autosomal, but one X chromosome in each cell is randomly "turned off" through X chromosome inactivation			