New Terms - Classical Genetics (by Mendel)

diploid cells - haploid cells -	cells that have a double set of chromosomes, one from each parent cells that have a single set of chromosomes
gametes -	haploid cells or sex cells
genes -	segments of DNA molecules that define a certain trait or
genes -	characteristic
	in organisms.
alleles -	different forms of the same gene. Remember that because of
ancies -	sexual
	reproduction, the offspring receives one gene for each trait from each
	parent.
homozygous -	two identical alleles present for the same characteristic
heterozygous -	two different alleles present for the same characteristic
dominant -	when one allele is expressed (shown) over another; often expressed
uommanit -	
recessive -	with a capital letter (A).
	the overshadowed allele; often expressed by a small letter (a).
genotype -	all the genes present in an organism
phenotype -	the observable traits in an organism, also known as gene
P -	expression normatic generation
F - F1 -	parental generation
F1 - F2 -	first generation offspring
	second generation offspring
	nt - individual has a pair of dominant alleles (AA)
• •	ant - individual has one dominant and one recessive allele (Aa)
	re - individual has a pair of recessive alleles (aa)
gene locus -	the location of a gene on the chromosome; the plural is loci
law of dominance -	when organism has two different alleles for the same trait, one allele
law of acquaration	dominates.
law of segregation -	diploid cells have pairs of genes, and during meiosis the two genes of
law of independent a	each pair separate and end up in different gametes.
law of independent a	essortment - gene pairs of homologous chromosomes are sorted into
	one gamete or another independently of how gene pairs on other
Dunnatt gauana	chromosomes are sorted. a boxed figure used to determine the probability of genotypes and
Punnett square -	
incomplete dominan	phenotypes in offspring.
	ce - when no single trait is dominant, but the allele combination blends.
multiple alleles -	there are more than two alleles for a single trait; blood type is an
	example
polygenic inneritanc	e - when a trait is determined by the interaction of genes on several
1 • 1	chromosomes.
gene linkage -	the transfer of a linkage group
linkage group -	genes that are inherited together and are located on the same
	chromosome
sex linkage -	traits that are linked to sex chromosomes

sex chromosomes -	chromosomes that determine the sex of an individual; there are two
	types - the X chromosome and the Y chromosome. Females have two
	X chromosomes and males have an X and a Y chromosome.
autosomes -	all of the other chromosomes besides the sex chromosomes. The
	other
	22 pair in humans.
	all of the other chromosomes besides the sex chromosomes. The other