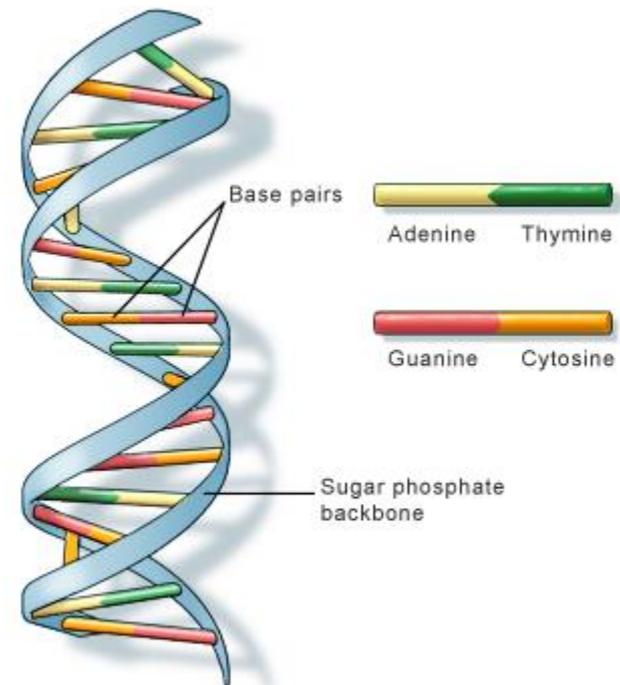
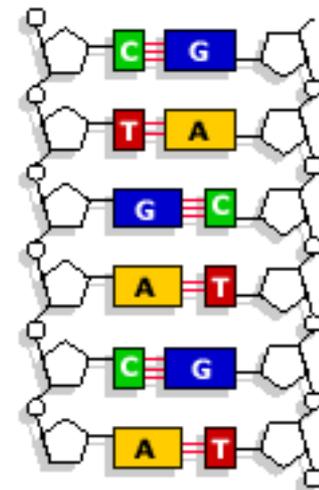


# DNA Vocabulary

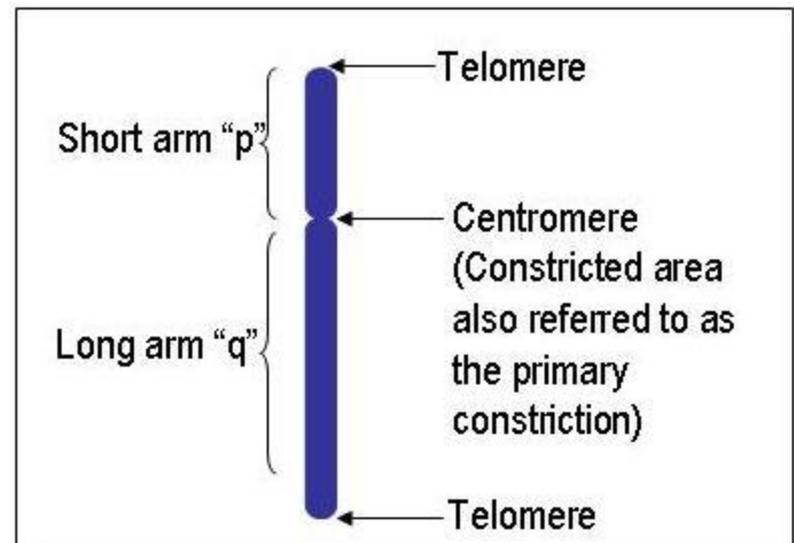
- Deoxyribose - The sugar found in DNA
- DNA - A double-stranded nucleic acid that contains the genetic information for cell growth, division, and function
- Double Helix - The shape of DNA's structure



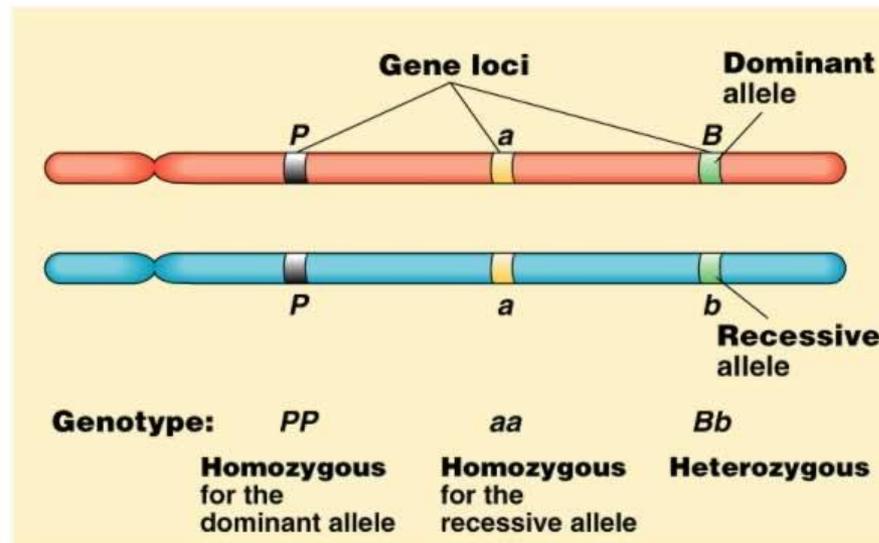
- Adenine - The Nitrogen Base in DNA that always pairs with Thymine
- Cytosine - The Nitrogen Base in DNA that always pairs with Guanine
- Guanine - The Nitrogen Base in DNA that always pairs with Cytosine
- Thymine - The Nitrogen Base in DNA that always pairs with Adenine



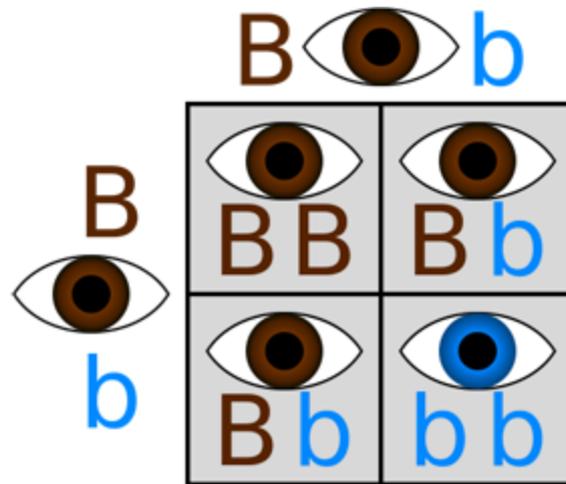
- Centromere - The part of a chromosome that is pinched together forming the two arms
- Chromosome - contain long DNA strands coiled-up and wrapped around proteins
- p arm - The shorter arm of a chromosome
- q arm - The longer arm of a chromosome



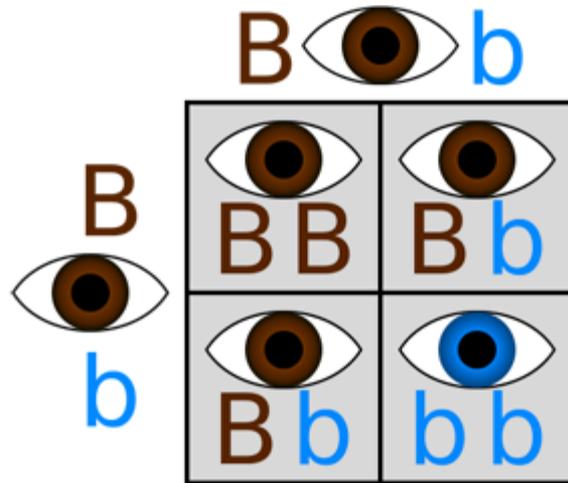
- Allele - One of two or more alternative forms of a gene
- Gene - DNA segments that have instructions for making a protein molecule that determines our inherited characteristics or traits such as blood type or enzyme production
- Locus - The specific location where a gene may be found



- Heterozygous - To inherit two different alleles from each parent (such as Tt or AB)
- Homozygous - Inheriting the same allele from each parent (such as TT or yy)



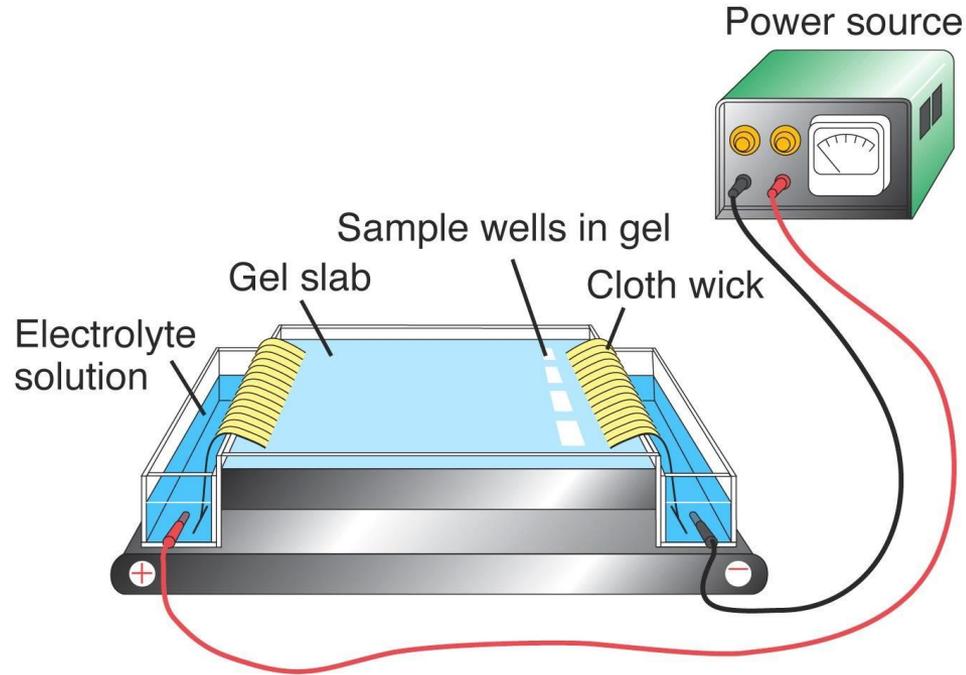
- Genotype - refers to the entire set of genes in a cell, an organism, or an individual. It is what your chromosomes say about you.



- Phenotype - The physical expression of a trait



- Electrophoresis - The method of separating the DNA molecules within an electric field through a gel medium, based on their size



- PCR - A method used to rapidly make multiple copies of a specific segment of DNA



- Karyotype - The chromosomes of a cell, usually displayed as a systematized arrangement of chromosome pairs in descending order of size, used to detect chromosomal abnormalities
- CODIS - The FBI Laboratory's Combined DNA Index System, which allows federal, state, and local police agencies to compare DNA profiles electronically