

# Molecular/Mendelian Genetics

## DNA Structure

Polymer of \_\_\_\_\_ that consists of a \_\_\_\_\_ group, \_\_\_\_\_, and \_\_\_\_\_, containing \_\_\_\_\_

## DNA Replication

DNA replicates just before \_\_\_\_\_ division. \_\_\_\_\_ unwinds the DNA, \_\_\_\_\_ polymerase adds DNA nucleotides, and \_\_\_\_\_ forms the \_\_\_\_\_ fragments on the \_\_\_\_\_ strand. The \_\_\_\_\_ strand is always replicated \_\_\_\_\_ the replication fork and the \_\_\_\_\_ strand is replicated \_\_\_\_\_ from the fork.

## Meiosis

The process in which a \_\_\_\_\_ (2N) cell yields \_\_\_\_\_ identical \_\_\_\_\_ (2N) cells. DNA replication occurs during \_\_\_\_\_. This phase is followed by \_\_\_\_\_, and \_\_\_\_\_. An "X" structure is called a \_\_\_\_\_ and each side of the X is a \_\_\_\_\_.

## Significant Experiments

\_\_\_\_\_ (Mice & bacterial transformation)  
\_\_\_\_\_ & \_\_\_\_\_ (Viruses - DNA vs Protein)  
\_\_\_\_\_ (Base pairing rules)  
\_\_\_\_\_ & \_\_\_\_\_ (DNA Structure)

## Gene to Protein (Protein Synthesis)

The purpose of a \_\_\_\_\_ (segment of DNA) is to provide cells with a code to make a specific \_\_\_\_\_. The first process in which mRNA is copied from one strand of DNA (the gene) is called \_\_\_\_\_. The mRNA then undergoes processing for \_\_\_\_\_ cells only. The mRNA heads to the \_\_\_\_\_ of the cell where the \_\_\_\_\_ cap binds to the \_\_\_\_\_ ribosomal subunit. Corresponding \_\_\_\_\_ tRNAs are then signaled to carry and line up specific \_\_\_\_\_, & \_\_\_\_\_ bond is then formed between the amino acids to produce a finished \_\_\_\_\_.

## Sexual Reproduction

Offspring result from the combination of two \_\_\_\_\_ cells. One parent donates a set of chromosomes and the other parent donates a set of chromosomes that are \_\_\_\_\_ to the first set. This way, the offspring's cells will be \_\_\_\_\_ or will contain the "normal" chromosome number for that species.

## Meiosis

Meiosis is the process in which 1 \_\_\_\_\_ cell yields \_\_\_\_\_ unique, haploid cells. During meiosis, \_\_\_\_\_ form during Prophase I. This is also called \_\_\_\_\_ and is the pairing of \_\_\_\_\_ chromosomes. At this time \_\_\_\_\_ & \_\_\_\_\_ chromosomes may or may not \_\_\_\_\_ over. During Anaphase I, it is the \_\_\_\_\_ & \_\_\_\_\_ chromosomes that assort (or split) randomly. This is Mendel's 2<sup>nd</sup> Law, the Law of \_\_\_\_\_. Assortment. The fact that the maternal and paternal chromosomes (Aa, \_\_\_\_\_ chromosomes) are separating at this point (A from a), supports Mendel's first law, the Law of \_\_\_\_\_. Meiosis ensures that each \_\_\_\_\_ will only contain 1 copy of each \_\_\_\_\_ chromosome. For example, a normal human baby should never receive two copies of chromosome 21 from one parent. This can, in fact, happen if homologous chromosomes do not separate properly during Anaphase \_\_\_\_\_ or the chromatids do not separate during Anaphase \_\_\_\_\_. This mistake is called a \_\_\_\_\_. Trisomy 21 (baby has 3 copies of chrom. 21) is known as \_\_\_\_\_ syndrome. \_\_\_\_\_ syndrome and \_\_\_\_\_ syndrome result from a non-disjunction of the \_\_\_\_\_ chromosome.

# Genetics Ap Biology Guide

**G Psacharopoulos**



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