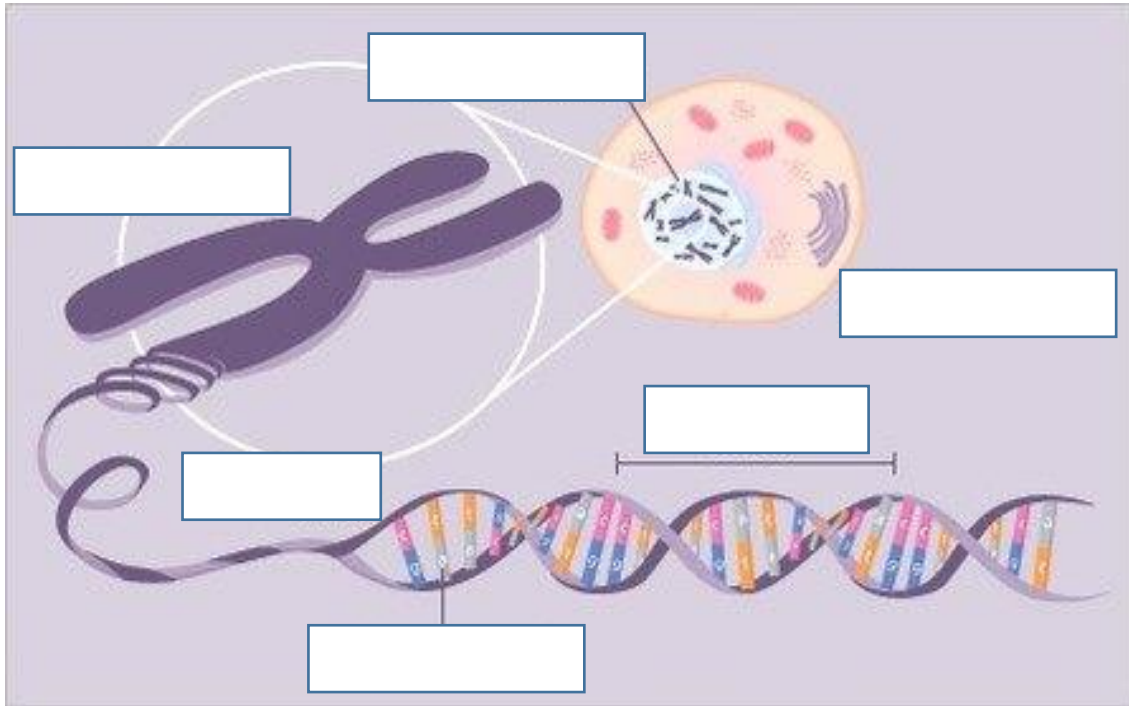


UNIT 1.2 NOTES: INTRO TO GENETICS

Genetics

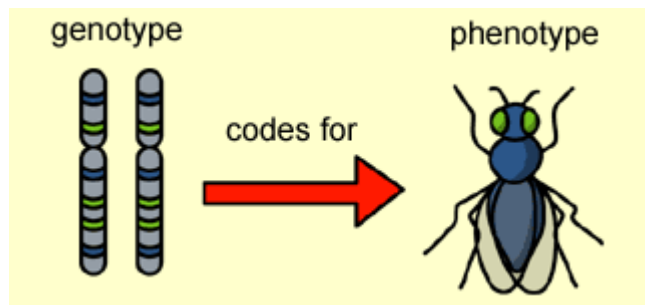
the study of characteristics of organisms and how those characteristics are passed from one generation to the next.

Label the following diagram using the terms: **chromosome, cell, nucleus, DNA, nucleotide, gene**



A **gene** is a specific sequence of _____ in a _____ that instructs to the cell to make proteins

Genes determine a lot of how an organism _____. The combination of genes in an individual result in a specific **genotype** and **phenotype** for that organism



Use the image above to describe the difference between an organism's genotype and its phenotype

GENOTYPE	PHENOTYPE

Each of your 23 individual _____
contains specific genes

Because you inherited one copy of each chromosome from each of your parents, you have "duplicates" of each chromosome (46 total), and therefore 2 copies of each gene.

Often, the version of a gene you get from one of your parents won't be the same as the version you inherit from your other parent.

