

Genetics / Heredity

Genetics = the study of heredity

Heredity = the passing of traits from parent to offspring (child)
↳ inherited traits!

Humans have 46 chromosomes...

23 from your mom

23 from your dad

... so for every trait you will have 2 genes!

↳ you have a set of each chromosome

↳ Sex chromosomes are the only ones that are not the same

XX = female

XY = male

Genes = segments of DNA that are instructions for an inherited trait

Alleles = different forms of a gene that decide a characteristic (trait)

↳ for each trait you have 2 alleles, one from each parent

Example: Gene/Trait = Flower color

Alleles = Purple allele, white allele

Gene/Trait = Eye color

Alleles = Blue allele, green allele, hazel allele etc.