

3. Each organism has 2 copies of each gene - 1 from mom, 1 from dad. These genes segregate during meiosis.
4. *Alleles*: for different genes usually segregate independently of each other.

Know how to fill out a Punnett square (monohybrid) and interpret it

Punnett squares use mathematical probability to help predict the genotype and phenotype combinations in a genetic cross. It is a diagram that can be used to predict the genotype and phenotype combinations of a genetic cross.

Genotype vs. phenotype

Genotype is the genetic makeup of an organism.

Phenotype is the physical characteristics of an organism.

Homozygous vs. heterozygous

Explain the relationship between genes and the environment

- how the genes actually unfold depends on the environment
- "phenotype is largely determined by the genotype" but environment also plays a role
- an individual's actual phenotype is determined by its environment as well as its genes
- environmental conditions can affect gene expression and influence genetically determined traits

List the exceptions to Mendel's principles

Incomplete dominance: situation in which 1 allele is not completely dominant over another allele

Codominance: situation in which the phenotypes produced by both alleles are completely expressed

Multiple alleles: genes with more than 2 alleles

Polygenic traits: traits controlled by two or more genes

Contrast the number of chromosomes in body cells and in gametes

The diploid cells of most adult organisms contain 2 complete sets of inherited chromosomes & adult organisms contain 2 complete sets of inherited chromosomes and 2 complete sets of genes

Human cells have 46 chromosomes; 23 come from mom and 23 come from dad

Summarize the events of meiosis (in each division; focus on the chromosomes – number and location)

Contrast meiosis and mitosis

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