

1. DNA is the hereditary material in cells. It is a chain of nucleotides.
2. A gene is a piece of DNA that controls one trait. Or it is a piece of DNA that is the information to construct one protein/polypeptide.
3. A chromosome is a long strand of DNA, composed of many genes. It contains the information for many traits.
4. An allele is a form of the gene. For example, the allele for purple flowers and the allele for white flowers are two different forms of the flower color gene in pea plants.
5. Heterozygous is an organism that has two different alleles for a trait.
Example: Pp = purple alleles and a white allele
6. Homozygous is an organism that has two of the same alleles for a trait.
Examples: PP = homozygous dominant (2 purple alleles)
pp = homozygous recessive (2 white alleles)
7. Genotype is the two alleles for a gene found in an organism (Example: PP, Pp, or pp)
8. Phenotype is the expression of a gene in an organism: appearance, existence of a genetic disease etc. Examples: Brown eyes, freckles, hemophilia
9. phenotype : ... recessive : ... genotype : ... dominant : ... heterozygous : ...homozygous

10.

4. Punnett square is a tool to determine what genotypes/phenotypes are possible offspring of two parents, and when the probabilities of each genotype/phenotype are.
Each side represents the possible alleles in each of the gametes (eggs/sperm) of parents.

Example: If a mother is heterozygous for free ear lobes (a dominant trait) her eggs can have either a F allele or f allele.
If the father is homozygous recessive for attached ear lobes, his sperm always have the f allele.

		Eggs from mother	
		F	f
Sperm from father	f		
	f		

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