chromosomes	thread-like structures made of DNA, observed in dividing cells	
chromosome theory of inheritance	the idea that genes, the units of heredity, are carried on chromosomes	
co-dominance	an inheritance pattern where both alleles present are expressed in the heterozygote	
crossing over	the exchange of DNA as a result of breaking and rejoining between homologous chromosomes during meiosis	
fertilisation	the fusion of male and female gametes during reproduction	

gamete formation	the process by which diploid cells divide and differentiate to become sex cells with half the chromosome number	
genetic recombination	the process by which a strand of genetic material (DNA or RNA) is broken and then rejoined to a different DNA molecule, either naturally or artificially	
genetic variation	differences in various traits or features that are genetically determined amongst members of a population	
genome	the total genetic material within a cell or an individual	
heredity	similarity between parents and offspring as a result of the inheritance of genes, carried on DNA molecules, by offspring from their parents	

independent assortment	random separation of pairs of chromosomes (or genes) during meiosis, giving different traits an equal opportunity of passing into a gamete	
locus	the position that a gene occupies on a chromosome	
meiosis	a process of cell division that is considered to be a reduction division because it halves the number of chromosomes in the resulting gametes that it produces	
nucleotide	a monomer or subunit of nucleic acids that has a distinct structure made up of sugar, a phosphate and a nitrogenous base	
sex chromosomes	chromosomes that play a role in determining the sex (gender) of an individual	

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genes for non-sexual traits, physically linked to the sex chromosome and inherited together with the sexual traits

## sex-linked inheritance

a pattern of inheritance of a non-sexual trait whereby it appears to be gender-linked

## sexual reproduction

a method of producing offspring that involves the fusion of male and female gametes to form a zygote, containing a combination of genetic material from both parents