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A gene is a short length of DNA found on a chromosome that codes for a particular characteristic or protein. Alleles are variations of the same gene. For example, eye colour is the gene but blue,...

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A gene is a section of DNA that is responsible for a characteristic like eye colour or blood group. Humans have around 20,000 genes. DNA makes up genes, which makes up chromosomes. One copy of all...

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Genes are packaged in bundles called chromosomes. Humans have 23 pairs of chromosomes, resulting in 46 individual chromosomes. Of those pairs, one pair, the x and y chromosome, determines whether you are male or female, plus some other body characteristics. Females have an XX pair of chromosomes while men have a pair of XY chromosomes.

[Overview of Genes, DNA, and Chromosomes](#)

Genes are made of a chemical called DNA, which is short for "deoxyribonucleic acid". The DNA molecule is a double helix: two long, thin wires that twist around each other like a spiral staircase. It can make copies of itself. If the two wires are separated, each can be used as a mould to make the other (a new DNA molecule is born).

[What is the relationship between DNA, genes and chromosomes?](#)

DNA and chromosomes may seem like completely separate things. Well, they're not. In fact, all chromosomes are individual DNA molecules coiled and twisted around, because DNA is huge. At least in eukaryotes it is. That's one of the first differences between eukaryotes and prokaryotes in their DNA - prokaryotes have less DNA.

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A gene is a small section of DNA on a chromosome, which codes for a particular sequence of amino acids, to make a specific protein. It is the unit of heredity, and may be copied and passed on to...

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DNA carries genetic code that determines characteristics of a living organism. Chromosomes are made from DNA. Genes are short sections of DNA. Mitosis makes identical cells, meiosis makes gametes.

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The largest chromosome, chromosome 1, contains about 8000 genes. The smallest chromosome, chromosome 21, contains about 300 genes. (Chromosome 22 should be the smallest, but the scientists made a mistake when they first numbered them!). The DNA that contains your genes is stored in your cells in a structure called the nucleus.

[DNA, genes and chromosomes - University of Leicester](#)

This DNA is tightly packed into structures called chromosomes, which consist of long chains of DNA and associated proteins. In eukaryotes, DNA molecules are tightly wound around proteins - called histone proteins - which provide structural support and play a role in controlling the activities of the genes. A strand 150 to 200 nucleotides long is wrapped twice around a core of eight histone proteins to form a structure called a nucleosome.

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The human genome is made up of a biological molecule called DNA, which stands for deoxyribonucleic acid. Most of our DNA is packed into the nucleus of the cell in structures called chromosomes. Most human cells have 46 chromosomes arranged in 23 pairs. We get one half of each chromosome pair from our mother and the other from our father.

[DNA, genes and chromosomes - Genomics Education Programme](#)

Chromosomes are bundles of tightly coiled DNA located within the nucleus of almost every cell in our body. Humans have 46 chromosomes in their somatic (non-reproductive) cells. We inherit one set of 23 chromosomes from our mother and one set of 23 chromosomes from our father. So we have two sets of 23 chromosomes or 23 pairs.

[DNA, genes, chromosomes and mutations | Genetic Alliance UK](#)

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A gene is a region of DNA that encodes function. A chromosome consists of a long strand of DNA containing many genes. A human chromosome can have up to 500 million base pairs of DNA with thousands of genes. The different nucleotides of our DNA sequences among all human beings form genes.

[Chromosomes, Genes and DNA: TEAS || RegisteredNursing.org](#)

The DNA found within the chloroplast may be referred to as the "plastome". Like the bacteria they originated from, mitochondria and chloroplasts have a circular chromosome. Unlike prokaryotes, eukaryotes have exon-intron organization of protein coding genes and variable amounts of repetitive DNA.

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