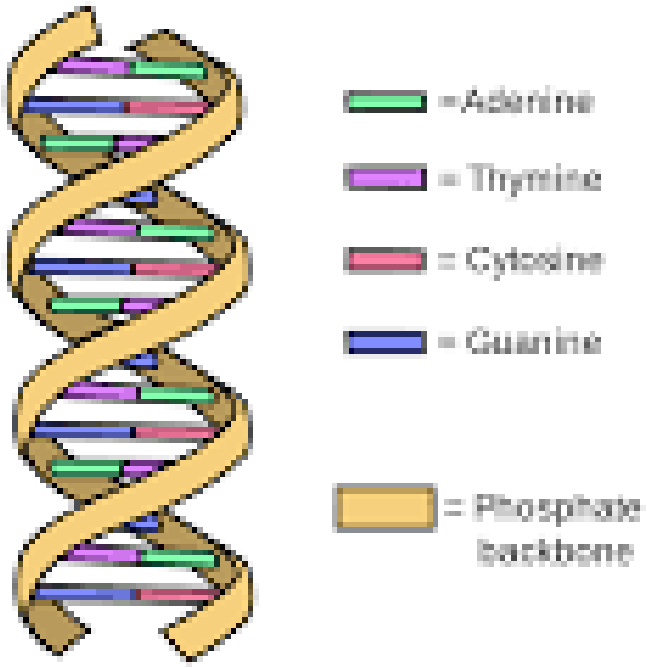
Biology

Chp 6

DNA

- DNA stands for deoxyribo nucleic acid
- It is a chemical that makes all the genetic material in the cell
- DNA decides what inherited traits you have like eye colour hair type or height
- DNA is found in the nucleus of animal and plant cells
- DNA is arranged in long structures called chromosomes
- Chromosomes come in pairs one from each parent
- DNA is a polymer which means it is made up of repeating units
- It has two strands twisted together in double helix shape



DNA

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- **Every living thing has DNA**
- **DNA give all instructions to build an organism**
- **these instructions are different for each type of organism**

Genes make protein

- **A gene is small part of DNA on a chromosome**
- **Each gene codes for a protein telling the cell which amino acids to join and in what order**
- **only 20 amino acids are used but they can make thousands of different proteins**

- genes tell cells what protein to make for example haemoglobin or Keratin
- proteins decide what type of cell it will be like red blood cell or skin cell

Every organism has a genome

- genome is all the DNA in one organism
- Scientist have work out the complete human Genomes
- Studying the Human Genome is very important because
- It help scientist find genes linked to diseases
- Knowing these genes can help understand diseases and develop treatments
- Scientist can study genomes to trace human migration