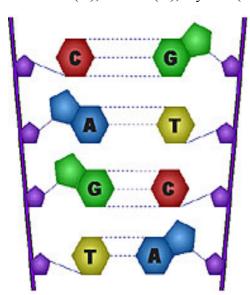
DNA: The Code of Life

- -deoxyribonucleic acid
- -contained in the chromosomes
- -humans have 46, dogs-78, mice-40, some bacteria-only one
- -DNA gives the cells specific instructions to create protiens for the organism they belong to



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- -DNA is made up of 4 nitrogen bases
- -Guanine (G), adenine(A), thymine(T), cytosine(C)

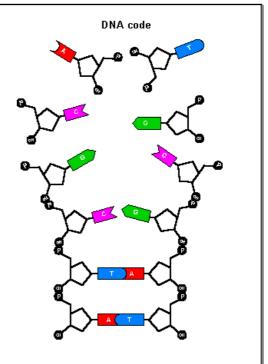


-these bases are arranged in 3 letter "words" which together form the gene "stories"

NOTE: only certain bases will pair with others adenine ALWAYS pairs with thymine cytosine ALWAYS pairs with guanine

DNA Replication

- -DNA can make a copy of it itself BECAUSE of the way the bases pair up
- 1) the DNA strand will 'unzip' as the chemical bonds are broken between each of the nitrogen bases
- 2) 'loose' nitrogen bases of the correct type will adhere to the free one
- 3) the ends of the newly attached nitrogen bases come together and the molecule is now a perfect copy of the DNA strand it originated from



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