

**YEAR 6 - SCIENCE – INHERITANCE**

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| Key Vocabulary | | | Key Figures |
| Inherit: traits passed from parent to offspring  Genes: your genetic make-up  DNA: the carrier of your genetic information  Chromosome: 23 pairs are found in every cell of the human body  Characteristic/Trait: a feature or quality belonging to a person  Inherited characteristics: traits you inherit from your parents | | Environmental characteristics: how you are influenced by those around you  Dominant Genes: the gene most likely to be inherited from parents, e.g. brown eyes  Recessive Genes: the gene least likely to be inherited from parents, e.g. blue eyes  Identical twins: twins of the same gender who look similar in appearance as they grew from the same egg in the womb  Fraternal twins: twins grown from separate eggs, can be different genders | James Watson and Francis Crick  Determined the double-helix structure of DNA, the molecule containing human genes. |
| Structure of DNA | Five Key Facts! | | |
|  | 1. Inheritance is the process by which genetic information is passed on from parent to child. This is why members of the same family tend to have similar characteristics. 2. We have 46 chromosomes in every cell in our body (23 from each parent). 3. An Inherited Characteristic could be: eye colour, hair colour, height, bone structure, nose shape etc 4. An Environmental Characteristic could be: music taste, languages spoken, personality, diet etc 5. Some diseases can be inherited from our biological parents such as: heart disease, arthritis, diabetes etc | | |