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**All saints upton church of england primary school**

**Science Development Strategy – Year 6 Key Skills**

**Ear**

Topics to be covered by the End of Year 6:

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| **Living things and their habitats** |
| Sort and group animals based on their features, using examples as a guide. |
| Describe Carl Linnaeus and his development of his classification system. |
| Place animals into given groups based on certain characteristics. |
| Design a creature with a specific set of characteristics, using prompts and a word grid. |
| Name types of microorganism. |
| Set up an investigation into harmful microorganisms. |
| Design a microorganism using given characteristics. |
| Complete descriptions on the characteristics of groups of organisms, using images as prompts. |

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| **Animals including Humans** |
| Identify the main parts of the circulatory system. |
| Explain the main functions of the heart, lungs and blood vessels in the circulatory system. |
| State how the digestive system breaks down nutrients. |
| Explain what constitutes a healthy lifestyle. |
| Describe how drugs and alcohol can impact negatively on the body. |

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| **Evolution and Inheritance** |
| Identify inherited traits and adaptive traits. |
| Understand that adaptations are random mutations. |
| Examine fossil evidence supporting the idea of evolution. |
| Identify the difference between selective and cross-breeding. |

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| **Light** |
| Recognise that light travels in straight lines. |
| Describe how light enables us to see. |
| Understand reflection as light bouncing off a surface. |
| Identify some effects of refraction. |
| Identify the visible spectrum. |
| Explore colours using light. |
| Recognise that Isaac Newton discovered information about light and colour. |
| Explain that objects block light to form shadows. |

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| **Working Scientifically** |
| Predict what will happen in an investigation. |
| Be able to plan and conduct an investigation. |
| Plan an investigation based on the results of a previous investigation. |
| Decide how to record data. |
| Make observations. |
| Take accurate measurements. |
| Record results. |