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

**Science Development Strategy – Year 3 Key Skills**

**Ear**

Topics to be covered by the End of Year 3:

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| **Living things and their habitats** |
| Identify the different parts of flowering plants. |
| Identify the main stages of the life cycle of flowering plants. |
| Children will be able to name the three different types of rocks. |
| They will handle and examine rocks to identify their properties, with support. |
| They will be able to state the four different types of matter that soil is composed of. |

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| **Forces and Magnets** |
| Identify forces as pushes and pulls. |
| Describe friction as a force that slows objects down. |
| Feel the pulling force of a magnet. |
| Sort materials according to whether they are magnetic or not. |
| Participate in an investigation into magnet strength. |
| Identify the different poles of a bar magnet. |

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|  **Animals, including humans** |
| Understand that plants and animals obtain food in different ways. |
| Identify the right types and demonstrate they understand the right amounts of nutrients for animals including humans. |
| Name the different types of skeletons as well as identify and categorise animals based on the type of skeleton it has. |
| Identify the main bones in the body and how a skeleton protects, supports and helps the body to move. |
| Explain how pairs of muscles work together to enable movement. |
| Explain the different ways that plants and animals including humans obtain food. |

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|  **Light** |
| Identify light sources. |
| Understand that we need light to see. |
| Know that light travels in a straight line. |
| Identify reflective surfaces. |
| Know that the sun can damage their eyes. |

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| **Working Scientifically**  |
| Children will learn to make careful observations. |
| They will be able to take part in and contribute towards an oral presentation of their observations. |
| Predict what will happen in an investigation. |
| Make observations. |
| Construct a bar chart on labelled axes. |
| Form a conclusion from their results. |
| Identify bones in x ray images |
| Identify concave and convex mirrors as curved mirrors. |
| Identify devices and inventions that use curved mirrors. |
| Children will learn to make careful observations. |