****

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

**Science Development Strategy – Year 5 Key Skills**

**Ear**

Topics to be covered by the End of Year 5:

|  |
| --- |
| **Living things and their habitats** |
| Identify parts of a flower. |
| Give one difference between sexual and asexual reproduction. |
| Describe ways plants can be pollinated. |
| Identify plants that reproduce asexually. |
| Describe ways to grow new plants other than from seed. |
| Identify the stages in the process of sexual reproduction. |
| Identify different types of mammals. |
| Give three facts about Jane Goodall. |
| Describe threats faced by chimpanzees. |
| Identify familiar animals that undergo metamorphosis. |

|  |
| --- |
| **Animals including Humans** |
| Order the stages of human development. |
| Demonstrate understanding of how babies grow in height. |
|  Describe the main changes that occur during puberty. |
| Explain the main changes that take place in old age. |

|  |
| --- |
|  **Earth and Space** |
| Describe a sphere. |
| Identify scientific evidence with support.  |
| Name the planets in the solar system with support. |
| Explain how the planets orbit the Sun. |
| Explain how night and day occur. |
| Make predictions about night and day in different places on Earth.  |
| Explain that the Moon orbits the Earth not the Sun. |

|  |
| --- |
|  **Forces**  |
| Identify forces as pushes and pulls. |
| Explain gravity as a force that pulls objects down towards the centre of the Earth. |
| Identify Isaac Newton’s discoveries. |
| Explain the effects of friction, including air and water resistance, on moving objects. |
|  Identify different mechanisms. |

|  |
| --- |
|  **Properties and Changes of Materials** |
| Identify materials.  |
| Describe materials’ properties.  |
| Identify thermal and electrical conductors and insulators. |
| Identify materials that are soluble or insoluble in water. |
| Follow instructions to separate mixtures.  |
| Identify irreversible changes.  |

|  |
| --- |
|  **Scientists and Inventors** |
| Investigate and describe the dangers of deforestation in Madagascar. |
| Name some endangered animals in Madagascar. |
| Describe absolute zero as the coldest possible temperature. |
| Identify appliances that run on electricity. |

|  |
| --- |
| **Working Scientifically**  |
| Compare and present data using bar and line graphs. |
| Report findings in oral form. |
| Report and present findings from enquiries with support. |
| Recognise that there are different variables in an investigation. |
| Predict what will happen in an investigation.  |
| Make observations. |
| Compare and present data using bar and line graphs. |