St John the Baptist RC Primary - Progression of Science Knowledge.

| Science area: | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Animals including humans | Understanding the World <br> 3 and 4 Year olds <br> Understand the key <br> features of the life <br> cycle of a plant or animal <br> Begin to understand the need to respect and care for the natural environment and all living things. Reception Describe what they see hear and feel whilst outside <br> The Natural World ELG <br> - Explore the natural world around them, making observations and drawing pictures of animals and plants; <br> - Know some similarities and differences between the natural world around them and contrasting environments, | - identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals <br> - identify and name <br> a variety of common animals that are carnivores, herbivores and omnivores - describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) - identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. | - notice that <br> animals, <br> including <br> humans, have <br> offspring which <br> grow into adults <br> - find out about <br> and describe the <br> basic needs of <br> animals, <br> including <br> humans, for <br> survival (water, <br> food and air) <br> - describe the <br> importance for <br> humans of <br> exercise, eating <br> the right <br> amounts of <br> different types of <br> food, and <br> hygiene. | - identify that animals, including <br> humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat identify that humans and some other animals have skeletons and muscles for support, protection and movement | -describe the simple functions of the basic parts of the digestive system in humans -Identify different types of teeth in humans and their simple functions -construct and interpret a variety of food chains, identifying producers, predators and prey | -describe the changes as humans develop to old age | -identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood -recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function -describe the ways in which nutrients and water are transported within animals, including humans |





|  | The Natural World ELG <br> - Explore the natural world around them, making observations and drawing pictures of animals and plants; <br> - Know some similarities and differences between the natural world around them |  | different habitats <br> provide for the basic needs of different kinds of animals and plants, and how they depend on each other <br> - identify and name a variety of plants and animals in their habitats, including microhabitats <br> - describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. |  |  | specific characteristics |
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| Forces and magnets | Understanding the World 3 and 4 year olds Explore how things work. <br> Explore and talk about different forces they can feel. <br> Reception |  |  | - compare how things move on different surfaces -notice that some forces need contact between 2 objects, but magnetic forces | -explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object |  |


|  | Explore the natural world around them. ELG <br> Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. |  |  | can act at a <br> distance <br> -observe how <br> magnets attract <br> or repel each <br> other and attract <br> some materials <br> and not others <br> -compare and <br> group together a <br> variety of <br> everyday <br> materials on the <br> basis of whether <br> they are <br> attracted to a <br> magnet, and <br> identify some <br> magnetic <br> materials <br> -describe <br> magnets as <br> having 2 poles <br> -predict whether <br> 2 magnets will <br> attract or repel <br> each other, depending on which poles are facing |  | -identify the effects of air resistance, water resistance and friction, that act between moving surfaces -recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect |  |
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| Light |  |  |  | - recognise that they need light in order to see things and that |  |  | -recognise that light appears to travel in straight lines -use the idea that light travels in |


|  |  |  |  | dark is the absence of light -notice that light is reflected from surfaces -recognise that light from the sun can be dangerous and that there are ways to protect their eyes -recognise that shadows are formed when the light from a light source is blocked by an opaque object -find patterns in the way that the size of shadows change |  |  | straight lines to explain that objects are seen because they give out or reflect light into the eye <br> -explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes -use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them |
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| Rock |  |  |  | -compare and group together different kinds of rocks on the basis of their appearance and simple physical properties -describe in simple terms how fossils are formed when things that have lived are |  |  |  |






|  |  |  |  | conductors and insulators, and associate metals with being good conductors |  |  |
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| Evolution and inheritance |  |  |  |  |  | -recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago -recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents -identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution |

