

Inskip St Peter's C.E. Primary School Knowledge Organiser

Subject: Science		Years: 5&6		Area: Living Things & their habitats including Humans	
What should I already know?		What skills will I learn?		Vocabulary	
<ul style="list-style-type: none"> ○ • identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers • explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant • investigate the way in which water is transported within plants • identify that animals, including 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 	<ul style="list-style-type: none"> • describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird • describe the life process of reproduction in some plants and animals • describe the changes as humans develop to old age • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of increasing 	Sexual reproduction One parent is needed to create an offspring, which is an exact copy of the parent.			
		Sexual reproduction Two parents are needed to make offspring which are similar but not identical to either parent.	Fertilise The action of fusing the male and female sex cells in order to develop an egg.	Gestation The length of a pregnancy.	Life cycle The journey of changes that take place throughout the life of a living thing including birth, growing up and reproduction.
Resources					
Flowers for dissection – with both female and male reproduction parts Life cycle videos/books Magnifying glasses Gestation tables for different mammals including humans Growing plants in the subzero conditions of Antarctica on the Exploratorium website.					

Inskip St Peter's C.E. Primary School Knowledge Organiser

<p>muscles for support, protection and movement</p>	<p>complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graph</p>	<ul style="list-style-type: none"> ▪ Plant adaptations, plant survival and plant uses on the Teachers Media website. ▪ The BBC Bitesize website, which has several 'Life cycles' videos to support this theme. <p>Use the Lancashire Planning Scheme –Year 5 Summer Term 'Amazon Adventure' for appropriate activities and more resources</p>
	<p>By the end of KS2</p>	
<ul style="list-style-type: none"> ▪ Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. ▪ Describe the life process of reproduction in some plants and animals. ▪ Plants produce pollen from the stamen (male part of a plant) which is transferred to the stigma and then the ovary (female parts of the plant). ▪ Fertilisation occurs in the ovary of the flower. ▪ Seeds are formed as a result of fertilisation. 		