

## ANIMALS INCLUDING HUMANS (BIOLOGY)

Statements in *red* are linked from other topics

Progression in Scientific knowledge, concepts & skills	EYFS (Early Learning Goals)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	KS3
<p><u>Concepts</u> Function Changes Growth Energy</p> <p>Working Scientifically</p>	<p>Children know about similarities and differences in relation to places, objects, materials and living things.</p> <p>They talk about features of their own immediate environment and how environments might vary from one another</p>	<p>Identify and label a variety of common animals (fish, amphibians, reptiles, birds, mammals)</p> <p>Know carnivores, herbivores and omnivores</p> <p>How to care for pets</p> <p>Identify, name, draw and label the</p>	<p>Know that animals have offspring that grow to be adults</p> <p>Know what animals and humans need to survive</p> <p>Describe the importance for humans of exercise, eating the right amount of different types of food and hygiene</p>	<p>Know that animals including humans need the right types and amounts of nutrition which comes from what they eat</p> <p>Know that humans and some other animals have skeletons and muscles for support, protection and movement</p>	<p>Know the simple functions of the basic parts of the digestive system in humans</p> <p>Know types and simple functions of teeth in humans</p> <p>Construct and interpret food chains (identifying producers, predators and prey)</p>	<p>Know the changes as humans develop to old age</p> <p><i>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</i></p> <p><i>Describe the life process of reproduction in some plants and animals (Living things and their Habitats)</i></p>	<p>Know the main parts of the human circulatory system</p> <p>Describe the functions of the heart, blood vessels and blood</p> <p>Know the impact of diet, exercise and drugs on the body</p> <p>Describe the ways in which nutrients and water are transported</p>	<p>Reproduction in humans including the structure and function of the male and female reproductive systems, menstrual cycle, fertilisation, gestation and birth</p> <p>The consequences of imbalance in the diet including obesity,</p>

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	<p>They make observations of animals and plants and explain why some things occur and talk about changes</p>	<p>basic parts of the human body and link to senses</p>					<p>within animals including humans</p> <p><i>Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms and plants and animals</i></p> <p><i>Give reasons for classifying plants and animals based on specific characteristics (Living things and their Habitats)</i></p>	<p>starvation and deficiency diseases</p> <p>The effects of recreational drugs</p> <p>The structure and functions of the gas exchange system in humans</p> <p>The mechanism of breathing to move air in and out of the lungs</p> <p>The impact of exercise, asthma and smoking on the human gas exchange</p>
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Possible Learning Challenge Questions		Why are humans not like tigers?	How will 5 a day help me to be healthy?  How could you be the next Jessica Ennis or Steven Gerrard?	How can Usain Bolt move so quickly?	What happens to the food we eat?	How different will you be when you are as old as your grandparents?	What would a journey through your body be like?	