



<p>Year 4 – <i>Animals including humans</i> (biology, chemistry, physics)</p>	
<p>NC objectives</p> <ul style="list-style-type: none"> describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey. 	
<p>Prior learning</p> <ul style="list-style-type: none"> Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 - Animals, including humans) Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). (Y2 - Animals, including humans) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. (Y2 - Animals, including humans) 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. (Y3 - Animals, including humans) 	<p>Future Learning</p> <ul style="list-style-type: none"> Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. (Y6 - Animals, including humans) Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. (Y6 - Animals, including humans) Describe the ways in which nutrients and water are transported within animals, including humans. (Y6 - Animals, including humans)
<p>Key vocabulary</p> <p>Prey, predator, consumer (primary/secondary/tertiary), herbivore, omnivore, carnivore,</p>	<p>Common misconceptions</p> <p>Some children may think:</p> <ul style="list-style-type: none"> arrows in a food chains mean 'eats' the death of one of the parts of a food chain or web has no, or limited, consequences on the rest of the chain there is always plenty of food for wild animals your stomach is where your belly button is food is digested only in the stomach when you have a meal, your food goes down one tube and your drink down another the food you eat becomes "poo" and the drink becomes "wee".



Areas of enquiry	Hook suggestions
<ul style="list-style-type: none">• Observation over time – how does an egg shell change when left in cola?• Comparative and fair testing – Compare the effects of different drinks on egg shell.• Identifying and classifying - Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls.• Pattern seeking – Are foods that are high in energy always high in sugar?• Researching using secondary sources - Research the function of the parts of the digestive system.	<p><u>Books</u> Pond Circle by Betsy Franco</p> <p><u>Scenarios</u> Sam’s mum says his love of coke will ruin his teeth. Should Sam stop drinking it? What could he drink instead? (<i>Comparative & fair testing</i>)</p>