

Scientific Questioning

Concept: Animals including humans

Year group	Key questions	Vocabulary
R	<p>What does our body need to be healthy? Can you label parts of the body?</p>	<p>Body, bodies, grow, health, arms, legs, stomach, head.</p>
1	<p>What are the different types of common animals? How are they the same? How are they different? What is a carnivore? What is an omnivore? What is a herbivore? What are the parts of the human body? What are our senses?</p>	<p>Fish, mammal, amphibian, reptile, bird, carnivore, omnivore, herbivore, head, hands, arms, legs, feet, eyes, ears, nose, smell, sight, touch, hearing, taste.</p>
2	<p>Explain how animals and humans change as they grow older. What are the basic needs of animals in order to survive? Why is exercise, healthy eating and hygiene important?</p>	<p>Baby, adult, child, teenager, toddler, elderly, water, food, oxygen, shelter, helpless, dependent, independent, exercise, healthy, hygiene, nutrition, protein, carbohydrates, fats, fruit, vegetables, balanced diet, sugar, starch.</p>
3	<ul style="list-style-type: none"> - Can you identify the types of nutrition that animals, including humans need to survive? - How do animals and humans get their nutrition? - Can you identify the difference between vertebrates and invertebrates? - What are the main functions of muscles and skeletons? 	<p>Vertebrate, invertebrate, muscle, skeleton, nutrition, balance, protein, carbohydrate, vitamin, backbone, digestion, energy, muscle</p>
4	<p>Can you describe the function of the digestive system in humans? Can you identify the different types of teeth and their simple functions? Can you construct and interpret a variety of food chains, identifying producers, predators and prey?</p>	<p>Large intestine, small intestine, mouth, tongue, teeth, oesophagus, stomach, bile, excretion, saliva.</p>

		<p>Producer, consumer, predator, prey. Herbivore, carnivore, omnivore. Canine, incisor, molar teeth.</p>
5	<p>Can you explain the lifecycles of a mammal? Can you explain the lifecycle of an amphibian? Can you explain the lifecycle of an insect? Can you explain the lifecycle of a bird? Can you compare these lifecycles and find differences? Can you describe the life process of reproduction in some plants and animals?</p>	<p>Mammal, amphibian, insect, bird, lifecycle, mating, nesting, frogspawn, tadpole, gestation, sexual and asexual reproduction, seeds, stem, root cuttings, tubers and bulbs .</p>
6	<p>Can you identify parts of the circulatory system? Can you describe the functions of the heart, blood vessels and blood? Do you know the impact of diet, exercise, drugs and lifestyle choices? How is water and nutrients transported within humans and animals?</p>	<p>internal organs, skeletal, muscular, digestive system, circulatory system, function, substance, alcohol, drugs, smoking, blood vessels, aorta, chambers, dissection.</p>