

Animals including Humans Scientific enquiry

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Investigations		Test – do children get faster as they get older?		Teeth – what happens to them – decay investigation What could happen in a food chain if one of the organisms changes?	Why are babies born with large heads? – explore.	
Working scientifically <ul style="list-style-type: none">• Research	How are the animals in Australia different to the ones that we find in Britain? Do all animals have the same senses as humans?	What food do you need in a healthy diet and why? What do you need to do to look after a pet dog/cat/lizard and keep it healthy?	Why do different types of vitamins keep us healthy and which foods can we find them in?	What causes tooth decay?	Why do people get grey/white hair when they get older?	How have our ideas about disease and medicine changed over time?
Working scientifically <ul style="list-style-type: none">• How scientific ideas have changed over time	What strange ideas did Italian scientist Luigi Galvani have about animals in 1780? Why did he think that? How did French doctor Renè Laennec's ideas improve medicine?	How did Florence Nightingale use maths to help her come up with ideas to improve nursing? When the first fizzy drink machine was invented in 1775, scientist Joseph Priestley said it was the cure to many health problems. What ideas do scientists have about fizzy drinks today?	How did chemist, Marie Maynard Daly, use science to help us improve our diets? How did James Lind explain the cause of scurvy and what was his evidence?	How has a visit to the dentist changed since ancient times?	How and why has life expectancy in the UK changed since the Middle Ages?	What ideas did Edward Jenner have about small pox and how did he test them?
Working scientifically <ul style="list-style-type: none">• Identifying and classifying	What are the names for all the parts of our bodies?	Which offspring belongs to which animal?	How do the skeletons of different animals compare? How would you organise these light sources into natural and artificial sources? How can we group the food that we eat?	What are the names for all the organs involved in the digestive system? How can we organise teeth into groups?	Which countries have the highest and lowest life expectancy? Why do you think this?	Which organs of the body make up the circulation system, and where are they found? Compare the skeletons of apes, humans, and Neanderthals – how are they similar, and how are they different?

Working scientifically <ul style="list-style-type: none"> • Pattern seeking 	Do you get better at smelling as you get older?	Which age group of children wash their hands the most in a day?	Do male humans have larger skulls than female humans? Are you more likely to have bad eye sight and to wear glasses if you are older?	Are foods that are high in energy always high in sugar?	Are the oldest children in our school the tallest?	Is there a pattern between what we eat for breakfast and how fast we can run?
Working scientifically <ul style="list-style-type: none"> • Observing over time 		How much food and drink do I have over a week?	How many fruits and vegetables do I eat over a week?	How does an egg shell change when it is left in cola?		How does my heart rate change over the day? How do different animal embryos change? How much exercise do I do in a week?
Working scientifically <ul style="list-style-type: none"> • Comparative tests 	Is our sense of smell better when we can't see?	Do bananas make us run faster?	How does the skull circumference of a girl compare with that of a boy?	.	Who grows the fastest, girls or boys?	Which type of exercise has the greatest effect on our heart rate?
Working scientifically <ul style="list-style-type: none"> • Fair tests 	Does being further away or closer to something with a smell affect your sense of smell?		How does the angle that your elbow/knee is bent affect the circumference of your upper arm/thigh?		How does age affect a human's reaction time?	How does the length of time we exercise for affect our heart rate? Can exercising regularly affect your lung capacity?
Specialist Vocabulary	Common animals, senses, omnivores, carnivores,	Offspring, adult, survival, exercise, hygiene, nutrition, reproduce, Baby, toddler, child, teenager, adult	Nutrition, vitamins, minerals, fat, protein, carbohydrates, fibre, water, vitamins, skeletons, protection, skull, brain, ribs, heart, lungs, movement, joint, muscle, diet	Nutrition, vitamins, minerals, fat, protein, carbohydrates, fibre, water, vitamins, skeletons, protection, skull, brain, ribs, heart, lungs, movement, joint, muscle, diet	Human, development, puberty, gestation, length, mass, grow.	Internal organs, heart, lungs, liver, kidney, brains, skeleton., muscle, muscular, digest, digestion, digestive, circulatory system, blood, blood vessels, drugs, lifestyle, nutrients, substances
Equipment to be used						