

William Barnes Primary School	Subject: Science
Unit: Animals Including Humans	Year 5
What should I already Know?	
<ul style="list-style-type: none"> Mammals are warm blooded and drink milk and Humans have five senses sight, touch, smell, hearing and taste Humans have six stages of life, that exercise is good for heart, muscles and bones, that a healthy balanced diet gives you energy and allows the body to grow, repair and fight off illness. All animals need food, water and air to live. The four food groups are fats, proteins, carbohydrates, vitamins and minerals. All mammals, birds, fish, reptiles and amphibians have a skeleton inside their body. Animals that do not have a skeleton are called invertebrates. The digestive system obtains energy and nutrients from the food we eat and consists of the mouth, teeth (incisors, canines and molars), salivary glands, stomach, oesophagus, large intestine, small intestine, rectum and anus. Humans have two sets of teeth and we need to look after our teeth by brushing and flossing. Food chains consist of producers, prey and predators. Prey and predators are consumers. An apex predator is at the top of the food chain. 	
Scientific Learning	
<p>Prenatal (before birth) – baby grows inside womb. The foetus gets oxygen and nutrients through the umbilical cord. Infancy – (0-1 years old) – babies rely on others for their basic needs Childhood (1-12 years old) – Humans learn to walk, talk, feed, dress and clean themselves. Adolescence (13-19 years old) – Humans go through puberty and grow physically and emotionally. Adulthood – (20-65 years old) – Humans are fully-grown, find jobs and have children. Old Age - (65+ years old) – Humans have stopped working, not as strong, eyesight deteriorates and hair turns grey.</p>	
<p style="text-align: center;">Puberty</p> <p>Puberty is the changes our bodies go through as we become adults</p> <p>Girls</p> <ul style="list-style-type: none"> grow breasts periods start hips get wider and gain weight <p>Both</p> <ul style="list-style-type: none"> mixed up feelings and mood swings acne (spots) voice box (larynx) grows hair grows under armpits pubic hair sweaty and oily skin body growth (height and limbs) <p>Boys</p> <ul style="list-style-type: none"> voice breaks (gets deeper) hair grows on face, chest, arms and legs penis and testicles develop and start to produce sperm <p>Puberty usually starts between ages 8 - 13 in girls</p> <p>Puberty usually starts between ages 9 - 15 in boys</p>	<p><u>Gestation</u> is the period of time a mammal carries her baby inside her body before giving birth. The gestation varies from one mammal to another, with larger mammals generally being longer.</p> <p><u>Growth</u> in mammals happens at different rates due to diet, illness and inherited genes.</p> <p><u>Life Expectancy</u> is the average time that a person can live and is affected by lifestyle choices and medical advances.</p> <p><u>Old Age</u> Old people can still learn new skills and exercise. Living a healthy lifestyle gives you more chance of having a healthy old age.</p>
<p><u>Periods</u> Girls start menstruating during puberty. Each month an egg is released from the ovary. Then it is not fertilised it is released from the womb. If the egg is fertilised the woman will become pregnant. A period last 2 to 7 days or so.</p>	
What should I Know by the end of the unit?	
<ul style="list-style-type: none"> The life of mammals can be divided into six stages which are prenatal, infancy, childhood, adolescence, adulthood and old age. Understand how the terms gestation, growth, life expectancy and old age can be linked to the human life cycle and their meanings. The physical changes that happen to humans during puberty and the differences between males and females. Girls begin their periods during puberty and how this is linked to the human life cycle. 	
Vocabulary	
Prenatal	The time when a baby mammal is inside its mother's womb before birth
Infancy	The first year human of life
Childhood	Roughly one to twelve years.
Adolescence	Roughly thirteen to nineteen years
Adulthood	Roughly twenty to sixty five years
Puberty	The physical and emotional changes that happen during adolescence
Gestation	The time a mammal spends growing inside its mother's womb
Life expectancy	The average length of time that a person or animal lives for.
Acne	A skin complaint that occurs during adolescence sometimes called teenage spots.

