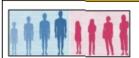
#### **Colney Heath School - Science Topic: Animals including Humans** Year: 5 Biology What should I already know? **Diagrams** Vocabulary A warm-blooded vertebrate animal, Classification of Animals - Animals can be grouped into vertebrates (and then further distinguishable by the possession of into fish, reptiles, amphibians, birds and mammals). hair or fur, females secreting milk for Mammal Animals - Some examples of life cycles (including those of plants and young and typically giving birth to live young - Reproduction and growth are two of the seven life The production of offspring by a Reproduction sexual or asexual process - How to live a healthy lifestyle. Chordata Arthropods This requires male and female parts and happens in both plants and Vocabulary Sexual Mammals Insects Arachnids animals. The offspring has some of reproduction Crustaceans Reptiles **Amphibians** the characteristics from both The process or period in which babies Gestation grow inside their mother's body parents. A person's child or children / an before they are born. Offspring **Animal Life Cycles** animal's young. The life cycles of different types of animals can look very different. The process of transformation from While some animals (such as cats, dogs and humans) begin life An unborn animal or human being in looking like small versions of the adult, other animals (for example an immature form to an adult form Foetus Metamorphosis the very early stages of development. butterflies) go through distinct stages which are so different that it in two or more distinct stages. can be difficult to believe that they are the same animal. The period of your life in which you The length of lifespan varies greatly from species to species. The length of time for which Some animals move through their life cycle very quickly! Other Lifespan / Life develop from being a child into being Adolescence animals have extremely long lifespans. something is alive. expectancy an adult. The change that happens in late The Life Cycle of a Human childhood and adolescence where the Egg A round object that contains a Puberty body starts to change because of growing embryo. hormones. During the first lew months of life, the baby depends on the adults for Embryo When a child or young animal An animal that has not been born (or he embryo (also known as a foetus) Mature Embryo glows inside the mother's uterus (words). For about nine morths, the matures, it becomes an adult. hatched) vet. embryo gets everything it needs to When an egg breaks to allow a develop from its mother. A person aged between 13 and 19. Hatching Teenager young animal to come out. Hormones are special chemicals your As the child grows, he or she learns body makes to help it do certain Hormone to walk, talk and gains many other skills, to become more independent. things – like grow up. Adult Once a person is fully The gradual growth or formation of grown, they can become a parent themselves Development Adolescent

During the teenage years, ots of changes happen as children's bodies prepare for adulthood.

something.

#### The Big Picture

## **Puberty**



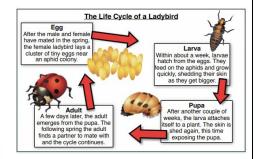
#### What is puberty?

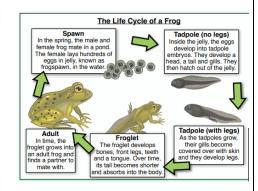
 Puberty is when a child's body begins to grow, change and develop as they become an adult.

-In humans, puberty normally begins around age 11-12, however it can take place anytime from age 8-14. Puberty happens when the pituitary glands begin to release hormones.



Growth and Development of Animals			
House Mice	African Elephants	Saltwater Crocodiles	Blue Whales
Gestation Period: 20 days	Gestation Period: 22 months	Gestation Period: 2-3 months	Gestation Period 10-12 months
Sexual Maturity: 4-6 weeks	Sexual Maturity: 10-12 years	Sexual Maturity: 10-12 years	Sexual Maturity: 10 years
Life Expectancy: 1 year	Life Expectancy: 60 years	Life Expectancy: 70 years	Life Expectancy: 90 years
1	SOF I		A STORY
	Gestation Period: 20 days  Sexual Maturity: 4-6 weeks  Life Expectancy:	House Mice  African Elephants  Gestation Period: 20 days  Sexual Maturity: 4-6 weeks  Life Expectancy:  Life Expectancy:	House Mice  African Elephants  Gestation Period: 20 days  Sexual Maturity: 10-12 years  Life Expectancy:  Life Expectancy:  Saltwater Crocodiles  Gestation Period: 2-3 months  Sexual Maturity: 10-12 years  Life Expectancy: Life Expectancy:





### By the end of our project we will know that

The life cycle of a living thing is a series of stages of development starting with a fertilized egg in animals or a seed in many plants. In most mammals (e.g. dogs) a fertilized egg develops in the womb into an embryo and is then born and fed on milk before it is weaned onto the food that is adapted to eat; it then develops to maturity in a period called adolescence after which it can reproduce and the cycle can begin again. Puberty is the change that happens in late childhood and adolescence where the body starts to change because of hormones. Some changes include growth in height, more sweat and hair growth on arms, legs and under the armpits

#### Biology

B1: Living things are special collections of matter that make copies of themselves, use energy and grow.

B2: Living things on Earth come in a huge variety of different forms that are <u>all related</u> because they all came from the same starting point 4.5 billion years ago.

B3: The different kinds of life, animals, plants and microorganisms, have evolved over millions of generations into different forms in order to survive in the environments in which they live.

# **Human Ageing Timeline**







Adolescent 12-17 years







Late Adulthood 60+ years

