Year 5 – Animals, including humans Clapgate 1 (Biology) Inspiring Young Minds Key Vocabulary: Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, National Curriculum Objectives: - Describe the changes as humans develop to old age Elderly, Growth, Development, Puberty, Hormone, Physical, Emotional Lesson 1: Human Lifecycle Lesson 3: Child Development Lesson 2: Gestation Prior learning: лII Identify & Classify Research & Observation over time **Enguiry Type** In Year 4 the children learnt to: Enquiry Question – What are the Enquiry Question – How does a Enquiry Question - How does a child describe the simple functions of the basic parts different stages in the human life cycle? foetus develop? change as it grows? of the digestive system in humans. Pose questions for the children to consider: how Introduce the terms foetus, embryo and gestation Show the chn pictures of different children at identify the different types of teeth in humans are you different to a baby? How are you different and ask if the children know what these mean. Chn different ages (birth -10) and ask them to discuss and their simple functions. to a teenager? How is a teenager different to an to research a range of animals (gestation, life span, what they see. Discuss milestones and how these number of offspring per pregnancy, size of animal) adult? How are you different to an elderly adult? are different for each child. Ask the chn what they Future Learning: Encourage the chn to think about their looks, how and to present their findings in a table. Chn to create think chn should be able to do at different stages in In Year 6 the children will learn to: they act, what they can and can't do. Discuss the a graph using the information they have gathered. their life cycle e.g ride a bike on the road, feed identify and name the main parts of the human main stages of human growth. Show How do Teach chn about the changes in a human foetus as themselves, stay home alone etc. Chn to order circulatory system, and describe the functions humans change during their lifetime? pregnancy progresses. Discuss the three different activities and suggest an age at which of the heart, blood vessels and blood. Chn to read a text on the human life cycle and to trimesters, viable pregnancies, premature births. these can be done. recognise the impact of diet, exercise, drugs use this to support them in drawing and labelling What makes a healthy pregnancy (smoking, Chn to investigate the question – The older you are, and lifestyle on the way their bodies function. their own. Provide a safe space/box for children to alcohol, drugs). the taller you are. describe the ways in which nutrients and water ask or write any questions they may have about Ch to create a timeline showing how a foetus *child led investigation are transported within animals, including the changes. develops in the womb. Working Scientifically Skills: making predictions humans Working Scientifically Skills: asking questions -How the human body grows - using prior knowledge to suggest an answer to the asking questions about the stages of the human Stages of foetal development question, observing & measuring - using Working Scientifically Skills: lifecycle, recording data - draw and label a scientific Working Scientifically Skills: recording data equipment to take measurements using standard Asking questions diagram of the human lifecycle draw a bar graph to show gestation period to units, recording data - construct and record data in Making predictions Key Knowledge: humans change as they age, compare different animals, draw a timeline to show a complex table, drawing conclusions - discuss Setting up tests children can describe the changes to humans as foetal development whether the evidence supports their prediction Observing and measuring Key Knowledge: different animals have different Kev Knowledge: children reach different they age Recording data gestation periods, chn know the different stages of milestones as they grow and they become more • Interpreting and communicating results foetal development independent as they get older Evaluating Things to include each half term: Lesson 4: Puberty Lesson 5: Adulthood Lesson 6: Human Timeline 1 x active learning Enquiry Question – How do we change through Enquiry Question – Do we stop changing when Enquiry Question – What do you know about 1 x outdoor science lesson pubertv? we get old? the stages in the human lifecycle? 3 x experiments/investigations Chn to discuss the changes they have already gone Provide chn with a selection of photos of well known Explain to the children that they now need to 1 x child-led investigation through from birth to now. Provide the chn with present the information they have learnt about the older people and ask them to order them by age. 3 x enquiry type lesson information about puberty and they are to play fact Discuss how people generally stop growing around human lifecycle to the rest of the class. Children to Science Display: or fiction (Twinkl PPT). 20 and then spend most of their adult life aging. work in groups and present their work any way they Enquiry types Discuss the changes and explain that they can Discuss how the children ordered the photos - what want. Photographs happen at different times for different children. features did they look at? Ask the chn what they Working Scientifically Skills: recording data -Vocabulary think happens to bones, hair, muscles, height, Explain to the chn that there are emotional changes chn choose how to record their knowledge of the during puberty as well as physical. Go through hearing etc. as people age. Discuss the age that human lifecycle, presenting data - communicate people have children and ask why. their findings to an audience using relevant menstruation. Chn to create a mind map of the different things to Children to create their own Venn diagram to show scientific languge the changes and create a glossary to accompany it. expect in old age. Key Knowledge: children know there are many Working Scientifically Skills: asking guestions -Children to create a poster to explain the changes different changes inside and outside the body. that happen during puberty. asking questions about how people age and why humans go through the same lifecycle but this Working Scientifically Skills: asking questions people age, recording data - mind map to show happens at different rates for different people asking questions about puberty, recording data changes as people age. drawing poster to show changes during puberty

Key Knowledge: puberty happens to different children at different times, puberty is physical and emotional changes,	Key Knowledge: chn know about different changes as we age, people stop growing but there are changes that we can't see as people age	

Clapoote Year 5 Medium Term Science Planner						
Inspiring Young Minds Animals, including humans (Biology) – Formative Assessment						
National Curriculum Objectives: - Describe the changes as humans develop to old age			Key Vocabulary: Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, Elderly, Growth, Development, Puberty, Hormone, Physical, Emotional			
Enquiry Question 1: What are the different stages in the human life cycle?	Enquiry Question 2: How does a foetus develop?	Enquiry Ques it grows?	tion 3: How does a child change as	Enquiry Question 4: How do we change through puberty?		
Working Scientifically Skills: asking questions – asking questions about the stages of the human lifecycle, recording data – draw and label a scientific diagram of the human lifecycle Key Knowledge: humans change as they age, children can describe the changes to humans as they age Below: Absent:	 Working Scientifically Skills: recording data – draw a bar graph to show gestation period to compare different animals, draw a timeline to show foetal development Key Knowledge: different animals have different gestation periods, chn know the different stages of foetal development Below: Absent: 	It grows? Working Scientifically Skills: making predictions – using prior knowledge to suggest an answer to the question, observing & measuring – using equipment to take measurements using standard units, recording data – construct and record data in a complex table, drawing conclusions – discuss whether the evidence supports their prediction Key Knowledge: children reach different milestones as they grow and they become more independent as they get older Below: Absent:		Working Scientifically Skills: asking questions – asking questions about puberty, recording data – drawing poster to show changes during puberty Key Knowledge: puberty happens to different children at different times, puberty is physical and emotional changes Below: Absent:		

Enquiry Question 5: Do we stop changing as we get old?	Enquiry Question 6: What do you know about the stages in the human lifecycle?	Notes:
Working Scientifically Skills: asking questions – asking questions about how people age and why people age, recording data – mind map to show changes as people age. Key Knowledge: chn know about different changes as we age, people stop growing but there are changes that we can't see as people age	to an audience using relevant scientific languge	
Below:	Below:	
Absent:	Absent:	