<u>Pioneer Federation</u> <u>Medium term plan</u> <u>Ks1- Cycle 2, Term 6</u> <u>Science</u>



Subject: Science		
Key Concept/ Theme: Animals including humans		
Prior Learning links: Year 3: Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from vertices they eat. Identify that humans and some animals have skeletons and muscles for support, protection and movement. Year 4: Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple function Construct and interpret a variety of food chains, identifying producers, predators and prey. In term 5 the children will have learnt about animals life cycles and asexual/sexual reproduction in plants.	vhat ns.	
Vocabulary:		
Gestation		
Fetus		
Fertilisation		
Species		
Baby		
Toddler		
Adolescent		
Adult		
Elderly person		
Puberty		
Hormones		
Pituitary gland		
Testosterone		
Estrogen		
Individual schools: please refer to the SRE jigsaw planning for lesson on puberty to check for specific year group requirements.		
1. Deeper learning question for the term:		
Prior learning reconnection (year group, cycle & term): Link to previous term's learning about the life cycles they have learn and connect to gestation periods this term of	:	
different animals. Previous learning:		
LO: Let's reflect about what we know about the different stages of human life.		
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	Activity: Create a scenario for the children whereby aliens have made contact with us. They have been secretly visiting the same houses on Earth over a period of many years.
	They now want to know what happened to some of the 'small people' that they saw 80 years ago. They are a little confused, as on their planet they are born a certain size and
	shape, and then they stay like this until they finally die. Children to reflect on what they know about the stages of life for a human and use this to explain to the aliens. At the end
	of the session ask the children to then think of questions they might have which they can answer throughout the term. This will be a page they can come back to and reflect of
	their questions after each session taught.
	Future learning links: Links to SRE/PSHE
2.	Deeper learning question: How long are the gestation periods of different animals?
	Reconnection: What do we know about the different stages of human life? Where do you think the word gestation will fit?
	LO: Let's learn about the gestation period of different mammals.
	Enquiry skill: presenting results and conclusions
	Activity: Is there a relationship between the mass of adult animal and the length of the gestation period? Children to use the tables on page 6-7bon Kent scheme to draw their
	own scatter graph to start to look for patterns. Develop a conclusion from the scatter graph.
3	Deeper learning question: How does the length of a baby change over time?
	Reconnection: What do we know about the gestation period of different mammals?
	LO: Let's understand how humans grow over time.
	Enquiry skill: results
	Activity: Give the children the table on page 11 (Kent Scheme) and ask the children what information they can draw from this table. Note down their ideas.
	Explain that babies and children are measured for their height and weight. They will then conduct their own survey.
	Survey – What is the height of children of different ages?
	The children must decide what type of enguiry this is (i.e. a survey).
	The children could decide how to do this scientific enquiry. They could make decisions as to the ages of children that they want to include in their survey, the
	number of children from each age that they will measure, and the method by which they will display their findings.
4	Deeper learning question: What happens to the human body during puberty?
	Reconnection: We looked at length last week- what do you know about the length/height of children during puberty?
	LO: Let's understand the changes in our bodies during puberty.
	Enquiry skill: sort and classify
	Activity: This session will link to the SRE unit covered in jigsaw, please refer to this when planning this session to know what is relevant for each year group.
	Children to find out about the changes in puberty- see page 12 (Kent scheme). Children to produce their own posters to reflect on their understanding of the
	stages of puberty.

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5	Deeper learning question: - What happens to adults as they become older?
	Reconnection: How do bodies change at certain time periods in their life?
	LO: Let's understand how humans change when they become older.
	Activity: Explain that different parts of the body change when humans get older. Use the science museum website to look at the ear and how it changes when the human is elderly. Then look at how the nose changes. Why might these changes occur? How might this affect humans? How has science developed to help
	older people? Focus on hearing aids and technology for people who cannot hear.
	Children to write a letter to the aliens with diagrams to explain how they would identify an older person and encourage them to describe how science has
	helped to support this change.
6	Quiz and sorting/classifying activity
	Enquiry skill: sorting and classifying
	Give the children pictures relating to the different stages and ask them to sort and classify the pictures. Can they create a classification tree for the aliens to use
	so they can work out what age the humans are?
End poin	its:
To be ab	le to describe the main changes in the human body from childhood to adulthood to old age. To identify the physical signs of human aging.
To comp	are and contrast the physical appearance of children and adults.
To comp	are the gestation period of animals and humans.
To under	stand the changes in puberty.
To be ab	le to draw and interpret data from graphs about the aging process.
To group	and sort/classify information about growing and changing.
To draw	conclusions from the results collected.