

Maple Tree Primary School

Year 5: Science – Animals Including Humans

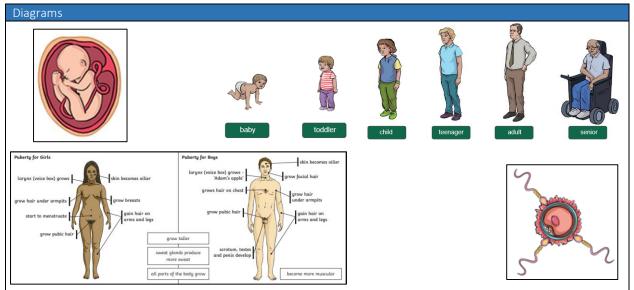
Learning. Equality. Achievement. Friendship.

What should I already know?

- The life-cycle of plants (a-sexual and sexual reproduction)
- the differences in the life cycles of a mammal, an amphibian, a reptile, an insect and a bird
- gestation periods of mammals
- how to classify groups using a variety of diagrams
- to draw a variety of graphs / charts and label them appropriately

Knowledge and skills

- Label the different phases of life experienced by humans and know the ages they occur (on average) as well as the developments they experience in each phase.
- Understand the main changes that happens during puberty
- Compare and contrast the changes that boys and girls experience during puberty
- Know that the gestation period for humans is on average 9 months (40 weeks)
- To choose the most appropriate graph/chart to display data in order to identify patterns and make conclusions
- Understand and explain (in basic terms what happens scientifically during the female menstrual cycle and how it prepares the body for pregnancy.



Vocabulary – Key people and Terms		
Birth	when your life starts as a physically separate being	
Conception	when the egg and the sperm meet to begin the	
	development of a foetus	
Gestation	the process or time when prenatal development	
	takes place before birth.	
Prenatal	the stage of development from the time of	
	fertilisation to the time of birth	
Develop	to grow, to become more mature or advanced	
Egg	the female sex cell	
Fertilisation	when the egg and the sperm meet to begin the	
	development of a foetus	
Foetus	a baby that is still developing in the womb	
Puberty	a time in the human life cycle when the body goes	
	through changes to become an adult	
Sperm	the male sex cell	
Womb	an organ in which the foetus grows and develops	
Testes	also known as testicles, behind the penis in a pouch	
	of skin called the scrotum – produces testosterone	
Scrotum	the bag of skin that holds and helps to protect the	
	testicles.	
Fallopian tube	either of a pair of tubes along which eggs travel	
	from the ovaries to the uterus	
Ovaries	a pair of female glands in which the eggs form and	
	the female hormones estrogen and progesterone	
	are made	
Uterus	an organ located in the female pelvis – fertilised	
	eggs implant themselves in the lining of the uterus	
Larynx	Voice box – the more laryngeal cartilage the	
	deeper the voice – why boys develop visible	
	'Adam's apples'	
Testosterone	a hormone (male) produced primarily in the	
	testicles	
Estrogen	a hormone responsible for the development and	
	regulation of the female reproductive system	
Progesterone	a hormone (female) main job is to prepare the	
	uterus ready for pregnancy	
Menstrual Cycle	Controlled by hormones – the process of preparing	
(Period)	the female body for pregnancy (releasing an egg	
	and the thickening of the lining of the uterus	
Menstruation	When the female body discharges the lining of the	
	uterus. This happens approximately once a month.	
Adolescence	the phase of life between childhood and	
	adulthood, from ages 10 to 19	

Question 1: Name the six phases of the human life		
Start of unit	End of unit	

Question 2: The process of a child turning into an adult is called	Start of unit	End of unit
testes		
gestation		
puberty		
toddler		

Question 3: What type of changes do humans experience during puberty?	Start of unit	End of unit
Physical		
emotional		
Neither of the above		
Physical and emotional		

Question 4: 2. You can only	Start	End of
learn new things when you	of unit	unit
are a child		
True		
False		

Question 5: Toddlers learn to:	Start of unit	End of unit
crawl		
hold things		
drink		
spell		

Question 6: 1. Name four changes that could happen during puberty:		
Start of unit	End of unit	

Question 7: Tick the graph that is the best representation of the relationship between animals gestation periods and their life expectancy:

Start of unit		End of unit		
Positive correlation Negative correlation N	lo correlation	Positive correlation	Negative correlation	No correlation
	· .: · · ·		·	· · . · · ·
	Ο	\Box		\bigcirc

Question 8: Humans are the only animals that have a womb.	Start of unit	End of unit
True		
False		

Question 9: What are the hormones associated with preparing the female body for pregnancy	Start of unit	End of unit
adrenaline		
estrogen		
testosterone		
progesterone		

Question 10: Compare and contrast the changes that boys and girls experience during puberty.	
Start of unit End of unit	