







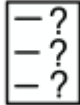




Vocabulary			Knowledge
<b>Pregnancy</b>	The time for which there is a baby growing inside a female's <b>womb</b> .		<p>A human <b>life span</b> can be split into a number of stages: infancy (roughly 2 months to 2 years), childhood (roughly 2 – 12 years), adolescence (roughly 12-16 years old), which age they become physically capable of <b>reproduction</b>, young adulthood (16-18 years old) adulthood (18-55 years old), old age. (Roughly 55+ years old).</p> <p>humans begin as <b>fertilized</b> eggs and then develop into <b>embryos</b>, the amount of time it takes for a baby to develop is called the <b>gestation period</b>. for mammals, including humans, this takes place inside the mother's <b>womb</b>. The baby is linked to the mother via a <b>placenta</b> which gives the baby nutrients and oxygen and takes away waste products. A human gestation period is roughly 9 months.</p> <p><b>Puberty</b> is a time when the body matures from that of a child to that of an adult. Puberty starts at different times for different people but usually it is around 8 years old for girls and 9/10 for boys. Puberty is triggered by hormones in the body.</p> <p>Boys – the <b>testes</b> develop and begin to produce <b>sperm</b> and the hormone <b>testosterone</b>. Testosterone causes boys to grow and become more muscular, their voices 'break' (deepen) and hair develops on their chest and face.</p> <p>Girls – <b>ovaries</b> develop and begin to release the hormone <b>oestrogen</b>. Oestrogen causes girls to develop <b>breasts</b> and their hips to widen. Their ovaries also release an egg once a month as part of the <b>menstrual</b> cycle (period).</p> <p>Both boys and girls – puberty hormones can cause spots or acne, and pubic and underarm hair begin to grow. During this time you will sweat more and grow taller. You may also experience changes to your mood such as mood swings or aggression.</p> <p>After these changes have taken place, they remain throughout adulthood.</p>
<b>Gestation period</b>	The amount of time that a baby spends inside its mother's <b>womb</b> before it is born.		
<b>Adolescence</b>	The time following the start of puberty during which a young adult develops from a child into an adult.		
<b>Puberty</b>	The time during which <b>adolescents</b> reach sexual maturity and become capable of reproduction.		
<b>Menstruation</b>	The losing of blood from the lining of the <b>uterus</b> .		
<b>Arthritis</b>	A disease-causing painful inflammation and stiffness of the joints.		
<b>Male</b>	The sex that produces <b>sperm</b>		
<b>Female</b>	The sex that can bear offspring or produce eggs/ <b>ovum</b>		
<b>Uterus / Womb</b>	An organ in the lower body of a <b>female</b> mammal where offspring are formed and in which those offspring grow before birth.		
<b>Ovary</b>	A <b>female</b> reproductive organ in which ova (eggs) are produced.		
<b>Foetus</b>	An unborn or unhatched offspring.		
<b>Embryo</b>	An unborn or unhatched offspring in the process of development.		
<b>Sperm</b>	A mature <b>male</b> reproductive cell found inside semen.		
<b>Breasts</b>	Protruding organs on a female mammals body which secrete milk after childbirth.		
<b>Testicles</b>	Oval shaped organs that produce <b>sperm</b> in <b>male</b> mammals.		
<b>Penis</b>	Male genital organ enabling the transfer of <b>sperm</b> .		

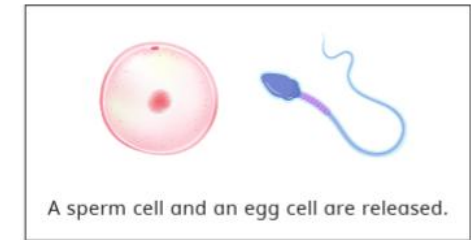
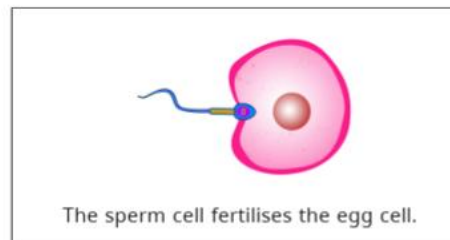
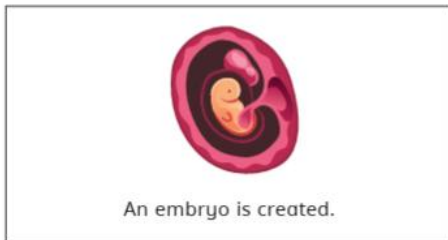
Quizzing		Quiz at home
Ask your partner the questions below. Can they find the correct answer on the right-hand side?		Ask your adult to look at the KO.  Quiz them using the vocabulary and knowledge section or the quiz questions. <ul style="list-style-type: none"> <li>• Can they beat your score?</li> <li>• Can they score more than 5? 10?</li> <li>• Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.</li> </ul> 
What stage comes after childhood?	True	
What is the name for the time a baby develops inside the mother?	Adolescence	
A human baby develops in the womb for around 9 months. True or False?	Hormones	
Which organ connects the mother to a developing baby?	Testosterone	
What triggers the changes of puberty?	False	
What hormones develop in boys during puberty?	Gestation period	
The changes are the same for boys and girls during puberty. True or False?	Mood swings, aggressions or changes in mood	
What happens once a month in girls' ovaries as part of the menstrual cycle?	Placenta	
Name one emotional change someone might experience during puberty?	An egg is released	
BIG Questions		Beat the adult
How do hormones tell the body when to grow and change?	Your teacher can give <b>10 facts</b> in <b>1 minute</b> about this topic.  How many can you give to your partner? 	
Why do humans have such a long gestation period compared to some animals?		
Why and how does puberty change how we think and feel as well as how we look?		
How do babies survive and grow without breathing air inside the womb?		
Word scramble	Creative Tasks	Challenge
Unscramble the key vocabulary from this topic below. You can create your own at the bottom	<ol style="list-style-type: none"> <li>1. Create a revision mind map that includes summaries of the information on the knowledge organiser. </li> <li>2. Choose another mammal. Create a life cycle comparison chart of your chosen animal and a human. Include: Gestation period, growth rate, development stages and time to adulthood.</li> <li>3. Create a diagram of the human life cycle.</li> </ol>	You are working as a junior doctor at a children's health clinic. Two patients visit you: Patient A is 10 years old and has started showing lots of changes linked to puberty. Patient B is 13 years old but has not started puberty yet and is worried they are "behind everyone else."  Both children are concerned something is wrong.  Using your knowledge of growth, life stages, and puberty, explain: Is either child developing abnormally? What causes the body to start puberty? How would you reassure both patients?
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**Enquiry  
Research**

Research the gestation period of different animals. Write down your findings

Animal 1	Animal 2	Animal 3
Animal 4	Animal 5	Animal 6

Label the pictures to show the order of the stages of reproduction



**Reading Data**

The table below shows the height of an average boy in a particular city at different ages. Use the information in the table to help you answer the questions.

Age in years	0 (just born)	4	8	12	16	20
Height in cm	51	103	128	149	174	178

Denis is 99cm tall on his 5<sup>th</sup> birthday. Is he above or below average height?

How tall do you expect an average 18-year-old boy in this city to be?

Aaman is 160cm tall. What stage of growth is he most likely to be in? Infancy, childhood or adolescence?








**Changes During Puberty**

Write a list of changes that boys and girls will go through during puberty

Knowledge	Knowledge
<p><b>A human life span</b></p> <p><b>humans begin as</b></p> <p><b>Puberty.</b></p> <p><b>Boys -</b></p> <p><b>Girls -</b></p> <p><b>Both boys and girls -</b></p>	<p>A human <b>life span</b> can be split into a number of stages: infancy (roughly 2 months to 2 years), childhood (roughly [ ] adolescence (roughly 12-16 years old), which age they become physically capable of [ ] young adulthood [ ] adulthood (18-55 years old), old age. (Roughly 55+ years old).</p> <p>humans begin as <b>fertilized</b> eggs and then develop into [ ] the amount of time it takes for a baby to develop is called the <b>gestation period</b>. for mammals, including humans, this takes place inside the mother's [ ] The baby is linked to the mother via a [ ] which gives the baby nutrients and oxygen and takes away waste products. A human gestation period is roughly 9 months.</p> <p>[ ] is a time when the body matures from that of a child to that of an adult. Puberty starts at different times for different people but usually it is around 8 years old for girls and 9/10 for boys. Puberty is triggered by [ ] in the body.</p> <p>Boys - the [ ] develop and begin to produce [ ] and the hormone [ ] Testosterone causes boys to grow and become more muscular, their voices 'break' (deepen) and hair develops on their chest and face.</p> <p>Girls - [ ] develop and begin to release the hormone [ ] Oestrogen causes girls to develop <b>breasts</b> and their hips to widen. Their ovaries also release an egg once a month as part of the [ ] cycle (period).</p> <p>Both boys and girls - puberty hormones can cause spots or [ ] and pubic and underarm hair begin to grow. During this time you will sweat more and grow taller. You may also experience changes to your mood such as mood swings or [ ]</p> <p>After these changes have taken place, they remain throughout adulthood.</p>








Write the definition for each of the following words

Vocabulary

Pregnancy	
Gestation period	
Adolescence	
Puberty	
Menstruation	
Arthritis	
Male	
Female	
Uterus / Womb	
Ovary	
Foetus	
Embryo	
Sperm	
Breasts	
Testicles	
Penis	

Write the vocabulary word for each definition

Vocabulary

	The time for which there is a baby growing inside a female's <b>womb</b> .	
	The amount of time that a baby spends inside its mother's <b>womb</b> before it is born.	
	The time following the start of puberty during which a young adult develops from a child into an adult.	
	The time during which <b>adolescents</b> reach sexual maturity and become capable of reproduction.	
	The losing of blood from the lining of the <b>uterus</b> .	
	A disease-causing painful inflammation and stiffness of the joints.	
	The sex that produces <b>sperm</b>	
	The sex that can bear offspring or produce eggs/ <b>ovum</b>	
	An organ in the lower body of a <b>female</b> mammal where offspring are formed and in which those offspring grow before birth.	
	A <b>female</b> reproductive organ in which ova (eggs) are produced.	
	An unborn or unhatched offspring.	
	An unborn or unhatched offspring in the process of development.	
	A mature <b>male</b> reproductive cell found inside semen.	
	Protruding organs on a female mammals body which secrete milk after childbirth.	
	Oval shaped organs that produce <b>sperm</b> in <b>male</b> mammals.	
	Male genital organ enabling the transfer of <b>sperm</b> .	

