



Knowledge	
<p>Can you identify all the stages in the human life cycle and describe how they change?</p>	<p style="text-align: center;"><b>Identifying and Classifying</b></p> <p>Create a time line of the stages of the human life cycle.</p> <ul style="list-style-type: none"> <li>• <b>foetus</b> - an unborn animal or human being in the very early stages of <b>development</b></li> <li>• new born - this is a baby that has just been born.</li> <li>• <b>infancy</b> - this is a period of <b>rapid</b> change.</li> <li>• Many <b>toddlers</b> learn to walk and talk at this stage.</li> <li>• childhood - children learn new things as they grow. They become more <b>independent</b>.</li> <li>• <b>adolescence</b> - this is when the body starts to change and prepare itself for <b>adulthood</b>. <b>Hormonal</b> changes take place over a few years. This is also known as <b>puberty</b>.</li> <li>• early <b>adulthood</b> - this is when humans are usually at their fittest and strongest.</li> <li>• middle <b>adulthood</b> - changes such as hair loss may happen. There are also some <b>hormonal</b> changes again and the ability to <b>reproduce</b> decreases.</li> <li>• late <b>adulthood</b> - there is a decline in fitness and strength</li> </ul>
<p>What changes do boys and girls experience during puberty?</p>	<p style="text-align: center;"><b>Identifying and Classifying</b></p> <ul style="list-style-type: none"> <li>• <b>Puberty</b> is the change that happens in late childhood and <b>adolescence</b> where the body starts to change because of <b>hormones</b>.</li> <li>• Some changes include <b>growth</b> in height, more sweat, hair <b>growth</b> on arms and legs, under the armpits and on <b>genitals</b>, and <b>growth</b> in parts of the body such as male <b>genitals</b> and breasts.</li> <li>• Females begin to <b>menstruate</b>.</li> </ul>
<p>How does the gestation period of an elephant, human and mouse differ?</p>	<p style="text-align: center;"><b>Comparative</b></p> <p>Predict what they think the gestation period of these would be and give reasons. Then research the information. State what they have found out. The more new-borns born the shorter the gestation.</p>
<p>Can we plot a graph of gestation periods?</p>	<p style="text-align: center;"><b>Pattern seeking</b></p> <p>Give children a wide range of animals with gestation periods on children to plot a graph and explain what they have found out.</p>
<p>What are the similarities and differences between children, adolescents and adults?</p>	<p style="text-align: center;"><b>Identifying and Classifying</b></p> <p>Create a Venn diagram showing similarities and differences between children, adolescents and adults.</p>
<p>Can we track changes over time from a baby to a child?</p>	<p style="text-align: center;"><b>Observing over time</b></p> <p>Record the length and mass of a baby as it grows. Observe what happens and how it changes. Explain what they have found out.</p>
<p>What are the differences between gestation periods of humans and other animals?</p>	<p style="text-align: center;"><b>Research</b></p> <p>Children to look up the gestation periods of humans and different animals record how they are different and give reasons why they might differ.</p>



## Vocabulary

<b>Adolescence</b>	The period of your life in which you develop from being a child into an adult.
<b>Adulthood</b>	The state of being an adult.
<b>Development</b>	The gradual growth or formation of something.
<b>Foetus</b>	An animal or human being in its later stages of development before it is born.
<b>Genitals</b>	The reproductive organs.
<b>Gestation</b>	The process in which babies grow inside their mothers body before they are born.
<b>Hormones</b>	A chemical in your body that makes an organ do something.
<b>Infancy</b>	The period of your life when you are a young child.
<b>Lifecycle</b>	The series of changes that an animal or plant passes through from the beginning of its life until its death.
<b>Life processes</b>	There are 7 process that tell us that living things are alive (MRS GREN)
<b>Menopause</b>	The time in which a woman gradually stops menstruating usually around 50 years old.
<b>Menstruation</b>	The monthly discharge of blood by non pregnant women from puberty to menopause.
<b>Offspring</b>	A persons children or an animals young.
<b>Organ</b>	A part of your body that has a particular purpose.
<b>puberty</b>	The stage in someone's life when their body starts to become physically mature.
<b>Reproduction</b>	When an animal or plant produces one or more individuals to itself.
<b>Toddler</b>	A young child who has only just learned to walk.
<b>Vertebrate</b>	A creature which has a spine.

## Hurst Hill Primary School Knowledge Organiser

Science	<b>Animals including humans</b>	Year 5	Summer 1	<b>Biology</b>
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Biology is the science that understands living organisms, including animals and plants.

### Animals, including humans

#### Statutory requirements

Pupils should be taught to:

- describe the changes as humans develop to old age.