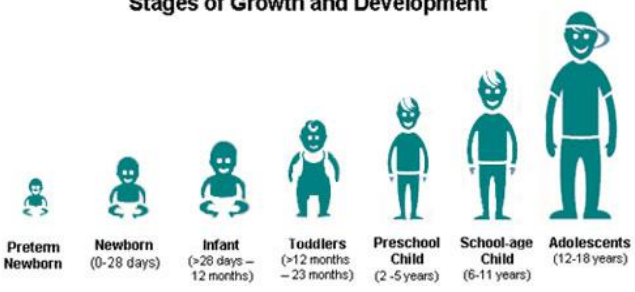


# Knowledge Organiser

Science Focus	Animals, including humans	Year 5	Spring 1
---------------	---------------------------	--------	----------

What? (Key Knowledge)	
The human reproductive system	
What is fertilisation?	The male and female sex cells fuse together.
What is puberty?	Usually, puberty starts between ages 8 and 13 in girls and ages 9 and 15 in boys. At that stage, their pituitary gland (a pea-shaped gland located at the bottom of your brain) releases special hormones that change and mature the body ready for reproduction.
Becoming old	As you get older, your skin wrinkles because it becomes thinner and less elastic. It gets drier too as it makes less oil and sweat. Your bones become more visible as you store less fat beneath your skin. Inside the body your bones and muscle become weaker. Your memory gets worse, and your immune system cannot fight disease as easily.

Pictures and Diagrams	
<p><b>Stages of Growth and Development</b></p>  <p>The diagram illustrates the stages of human growth and development using icons and text labels. The stages are: Preterm Newborn, Newborn (0-28 days), Infant (&gt;28 days – 12 months), Toddlers (&gt;12 months – 23 months), Preschool Child (2-5 years), School-age Child (6-11 years), and Adolescents (12-18 years). Each stage is represented by a stylized human figure that increases in size and complexity from left to right.</p>	

Possible experiences
<ul style="list-style-type: none"><li>• Invite guests in to share their experiences e.g. parent with a newborn child, an elderly person.</li><li>• Measure children from different year groups in the school – from Nursery to Year 6. What can they do? What milestones have they passed.</li><li>• For homework, talk to your parent and make a list of your personal milestones – when did you say your first words, when did you walk?</li></ul>

Statutory requirements	
Describe the changes as humans develop from birth to old age.	
What? (Key vocab)	
Spelling	Definition
Gestation	The process or time when prenatal development takes place before birth.
Fertilisation	The process of the male and female sex cells fusing together.
Reproduce	To produce young.
Prenatal	The cells develop and grow into a foetus inside the mother's uterus. After around 9 months, the baby is born.
Newborn	A human infant that is less than 28 days old.
Infant	Child under 1 year of age.
Toddler	Child aged 12-36 months.
Child	Human aged 3-11 years.
Adolescent	Human aged 12-18 years old.
Elderly person	The final stage of life – often defined as over 60/65 years.
Hormones	Hormones are your body's chemical messengers.
Puberty	The period during which adolescents reach sexual maturity and become capable of reproduction.