

# ANIMALS INCLUDING HUMANS YEAR 5: SCIENTIFIC ENQUIRY OVERVIEW

Lesson Title:	Objectives:	Scientific Enquiry:	Equipment:
Where does the human life cycle begin?	<ol style="list-style-type: none"> <li>1. Identify the stages of the human life cycle.</li> <li>2. Understand the key developmental milestones at each stage.</li> <li>3. Recognise that humans experience changes throughout their life cycle, from birth to old age.</li> </ol>	<ul style="list-style-type: none"> <li>• Identifying, Classifying, and Grouping</li> <li>• Pupils are classifying different stages of human life and matching developmental milestones to the correct life stage.</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheets or slides with human life cycle stages (baby, child, adolescent, adult, elderly).</li> <li>• Booklet for pupils to read and reference.</li> </ul>
How Does a Child Prepare for Adulthood?	<ol style="list-style-type: none"> <li>1. Know what is meant by adolescent?</li> <li>2. Describe some changes during puberty</li> <li>3. Investigate growth during puberty</li> </ol>	<ul style="list-style-type: none"> <li>• Comparative Testing</li> <li>• Pupils are comparing their heights</li> <li>• Pattern Seeking</li> <li>• They look for trends or common height groups across the class.</li> </ul>	<ul style="list-style-type: none"> <li>• A tape measure or ruler for measuring heights, Bar chart templates or graph paper for plotting height data, A whiteboard for collaborative data recording (optional)</li> </ul>
What is a period?	<ol style="list-style-type: none"> <li>1. State the role of the womb lining.</li> <li>2. Describe what is meant by a period.</li> <li>3. Model the menstrual cycle.</li> </ol>	<ul style="list-style-type: none"> <li>• Identifying, Classifying, and Grouping</li> <li>• Pupils are classifying the different stages of the menstrual cycle by using coloured beads to represent them. They are sorting, grouping, and organising these stages into a logical sequence that models the cycle.</li> </ul>	<ul style="list-style-type: none"> <li>• 28 beads (5 red, 23 another colour).</li> <li>• Twine.</li> <li>• Scissors</li> </ul>
When are new humans made?	<ol style="list-style-type: none"> <li>1. State what is meant by reproduction.</li> <li>2. Describe the baby stage of the human life cycle.</li> <li>3. Explain what happens in the womb during pregnancy</li> </ol>	<ul style="list-style-type: none"> <li>• Identifying, Classifying, and Grouping</li> <li>• Pupils classify stages of development based on size and compare them using models.</li> </ul>	<ul style="list-style-type: none"> <li>• Everyday classroom objects like rulers, glue sticks, exercise books, etc.</li> <li>• A printed foetus development chart or infographic.</li> </ul>
Do other animals have the same life-cycle?	<ol style="list-style-type: none"> <li>1. Research animal gestation periods</li> <li>2. Create a bar chart</li> <li>3. Analyse data</li> </ol>	<ul style="list-style-type: none"> <li>• Pattern Seeking and Research Using Secondary Sources</li> <li>• Pupils research gestation periods and the number of babies for different animals using books or online resources. Then they look for patterns between the length of the gestation period and the number of babies each species has, identifying relationships to draw conclusions about animal reproductive strategies.</li> </ul>	<ul style="list-style-type: none"> <li>• A printed or blank chart for recording gestation periods and number of babies.</li> <li>• Booklets, internet-enabled devices for researching additional animal data.</li> </ul>
What is the Last Stage of the Human Life Cycle?	<ol style="list-style-type: none"> <li>1. Recognise the physical and mental changes during the elderly stage.</li> <li>2. Research life expectancy across various countries.</li> <li>3. Create a bar chart to compare life expectancy data.</li> </ol>	<ul style="list-style-type: none"> <li>• Pattern Seeking: Pupils will look for patterns in life expectancy data across different countries.</li> <li>• Researching using Secondary Sources: They will gather life expectancy information from sources such as the Worldometer website</li> </ul>	<ul style="list-style-type: none"> <li>• Printouts or digital access to life expectancy tables for various countries.</li> <li>• Graph paper or whiteboard for drawing bar charts.</li> <li>• Access to research websites like Worldometer.</li> </ul>