



Science Unit Planner Year: 5 Title: Life Cycles of animals and humans

Unit Overview	In this unit, children learn about the different ways different types of animals reproduce and their life cycles. The children will learn about amphibians, birds and mammals other than humans.	
Prior Learning/ Links	<p>EY – Children study life cycles of different animals. They learn the names of different animals and why they are different.</p> <p>KS1 – Children study living things and how they thrive in their habitat. They learn about different plants and animals and their life cycles.</p> <p>KS2 – Children learn about different plants and animals and the things that put them in danger. They learn about different parts of animals such as the digestive system and teeth, and how these help the animals survive.</p>	
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
<p>Key Questions:</p> <p>What happens when you mix eggs and flour? Can you reverse it?</p> <p>Once a cake is baked, why can you not get the original mix back?</p> <p>What types of change are reversible?</p>	<p>• Children know that different types of animals have different life cycles:</p> <p>Mammals:</p> <ul style="list-style-type: none"> • Have live young • Grow from babies to adults • Reproduce • Have live young <p>Insects:</p> <ul style="list-style-type: none"> • Lay eggs • Grow or transform into an adult • Reproduce • Lay eggs <p>Birds:</p> <ul style="list-style-type: none"> • Lay eggs • Grow to adults • Reproduce • Lay eggs <p>Amphibians</p> <ul style="list-style-type: none"> • Lay egg in water • Grow to adult • Reproduce • Eggs in water • Children know that in order to survive, living things have to reproduce. • Children can explain how flowering plants reproduce. • Children know how humans and most mammals reproduce (Linked to SRE). • Children can describe the changes in humans from birth to old age. 	<p>Questioning and Planning</p> <ul style="list-style-type: none"> - Describe the differences between the life cycles of different living things: mammal, amphibian, insect and a bird. - Explain the cycle of reproduction in common plants and animals. - Describe how things are grouped broadly based on observable characteristics – give reasons for classifying plants and animals. - Explain how diet, exercise, drugs and lifestyle can impact on the way the body functions. - To describe the changes in humans from birth to old age. <p>Observation and Measurement</p> <p>Recording and Presenting</p> <p>Report and present findings to others:</p> <ul style="list-style-type: none"> - Use written explanations - Draw and present diagrams and explain their meaning - Present graphs and describe the results clearly - Discuss the degree of trust in results. - Describe the causal relationships in the findings. <p>Shoe evidence of prior work to support or refute ideas.</p> <p>Analysing and Evaluating</p>
Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive:		



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<p>Mammal Amphibian Insect Sexual Asexual Reproduction Eggs Life cycle</p> <p>Disciplinary: Observe Explain Classify Group reason</p>	<p>Year 5: Animals, including humans STEM</p> <p>Animals Including Humans Year 5 - KS2 Outstanding Science</p> <p>Year 5: Living things and their habitats STEM</p> <p>Science KS2 / KS3: The life cycles of different organisms - BBC Teach</p>	
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