






Year 5 Science Curriculum at Upton Heath

	Autumn Term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Overview	<p style="text-align: center;">Forces</p> 		<p style="text-align: center;">Properties and Changes of Materials</p> 	<p style="text-align: center;">Earth and Space</p> 	<p style="text-align: center;">Animals, including humans</p> 	<p style="text-align: center;">Living Things and their Habitats</p> 
Suggested Content	<p>Understand what a force is and how it can affect an object</p> <p>Investigate friction caused by different materials</p> <p>Investigate whether the mass of an object affects how quickly it falls to the ground</p> <p>Explore the effects of air resistance</p> <p>Understand the effects of water resistance and up-thrust</p> <p>Explain how simple levers work</p>		<p>Consolidate our knowledge of state of matter</p> <p>Classify materials based on their conductivity</p> <p>Understand and explain how simple solutions are made</p> <p>Investigate how the temperature of water affects how much sugar can be dissolved?</p> <p>Investigate which type of sugar dissolves the fastest</p> <p>Examine how a container of salt changes over time</p> <p>Utilise evaporation as a method for separation of a solution</p> <p>Make informed decisions about how to separate solutions and mixtures</p> <p>Understand that some changed can be reversed whilst others cannot</p>	<p>Explain why day and night occur</p> <p>Investigate how shadows change throughout the day</p> <p>Identify and order the phases in the cycle of the moon</p> <p>Describe the movements of the planets in the solar system</p> <p>Compare key features of the planets in the solar system</p> <p>Describe how our knowledge of the solar system has changed over time</p>	<p>Identify all stages in the human life cycle</p> <p>Understand changes which happen during adolescence</p> <p>Compare growth by both age and gender</p> <p>Describe changes that happen as humans develop to old age</p> <p>Investigate how age affects a human's reaction time</p> <p>Examine gestation in a variety of animals</p>	<p>Research about a famous naturalist</p> <p>Order the life cycle of a house fly (or similar)</p> <p>Seek patterns in life cycles of different animals</p> <p>Classify and group animals based on their life cycles</p> <p>Grow plants from parts of a parent plan)</p>
Observing over time			How does a container of saltwater change over time?	How does shadow length change over the day?		How does a bean change as it germinates? (1)
Pattern seeking				Is there a pattern between the size of a planet and the time it takes to travel around the sun?	Is there a pattern between a mammal's size and its gestation period?	
Research				Who were Galileo Galilei and Isaac Newton?		Can you explain the work of David Attenborough? (3)
Identifying & classifying	Can you label and name all the forces acting on the objects in each of these situations?			Can you observe and identify all the phases in the cycle of the moon?	Can you identify all the stages in the human life cycle?	What are the differences between the life cycle of an Insect and a mammal? (
Comparative tests	Which shape parachute takes the longest to fall?		Which type of sugar dissolves the fastest?	How does the length of daylight hours change in each season?		
Fair Tests	How does the surface area of a container affect the time it takes to sink?				How does the temperature of tea affect how long it takes for a sugar cube to dissolve? (6)	How does age affect a human's reaction time?

