

Year 4 Science Curriculum at Upton Heath

	Autumn Term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Overview	Living Things and their Habitats 	Animals, including humans 	States of Matter 		Electricity 	Sound 
Suggested Content	<p>Recognise different ways animals can be grouped</p> <p>Classify animals using classification keys (4)</p> <p>Add animals to a classification key (3)</p>	<p>Identify types of teeth in humans (4b)</p> <p>Describe the functions of different teeth types Compare teeth between carnivores and herbivores Examine tooth decay (1)</p> <p>Describe how teeth should be cared for (3)</p> <p>Understand the purpose of the digestive system</p> <p>Describe the functions of the parts of the digestive system (4a)</p> <p>Examine and describe a food chain Construct a food chain using provided information</p>	<p>Examine features of the three states of matter</p> <p>Classify materials and objects by state of matter</p> <p>Investigate how quickly solids melt (2)</p> <p>Find out if all liquids freeze at the same temperature (5)</p> <p>Investigate evaporation pace (6) (1)</p> <p>Understand condensation</p> <p>Examine how water changes state in nature</p>		<p>Identify and group appliances that run on electricity (4)</p> <p>Construct simple series cells using common electrical parts</p> <p>Identify whether a lamp will light in a circuit</p> <p>Investigate whether materials are conductors or insulators or electricity (5)</p> <p>Examine the thickness of a conductor on the brightness of a bulb (6)</p> <p>Investigate battery life (1)</p>	<p>Investigate the volume of sound at different points in the day (1)</p> <p>Explore how sounds are made by vibrations</p> <p>Explore how sounds travel through different objects (5)</p> <p>Investigate how sounds change with distance from the source (6a)</p> <p>Find patterns between the volume of a sound and the strength of the vibrations it produces</p> <p>Explore how the pitch of an object can be changed (6b)</p>
Observing over time		How does an egg shell change when it is left in cola? (1)	How does the level of water in a glass change when left on the windowsill? (1)		How long does a battery light a torch for? (1)	When is our classroom the quietest? (1)
Pattern seeking			Is there a pattern in how long it takes different sized ice lollies to melt? (2)			Is there a link between how loud it is in school and the time of day?
Research	Can we find other animals to add complexity to our classification key? (3)	How do dentists fix broken teeth? (3)				
Identifying & classifying	identifying native and non-native animals	<p>What are the names for all the organs involved in the digestive system? (4a)</p> <p>How can we organise our teeth into groups? (4b)</p>)		How would you group these electrical devices based on where the electricity comes from? (4)	
Comparative tests			Do all liquids freeze at the same temperature? (5)		Which material is the best conductor of electricity? (5)	Which material is best to use for muffling sound in ear defenders? (5)
Fair Tests			How does the surface area of a container of water affect how long it takes to evaporate? (6)		How does the thickness of a conducting material affect how bright the lamp is? (6)	<p>How does the volume of a drum change as you move further away from it? (6a)</p> <p>How does the length of a guitar string/tuning fork affect the pitch of the sound? (6b)</p>

