Orton Wistow Primary School – Curriculum Plan								
Subject : Science - Electr	icity Year	: 4			Term :	Autumn		
Vocabulary	Knowledge					Skills		
 Define the word and include etymology if useful. Components – objects that can be added to an electrical circuit. E.g. bulb, battery, switch, buzzer, motor. Cells - An electrical cell is a device used to generate electricity, or to make chemical reactions by applying electricity. Battery - A battery is one or more cells, connected. Brightness - the quality or state of giving out or reflecting light. Volume – quantity or power of sound; degree of loudness. Switch - a device for making and breaking the connection in an electric circuit. Buzzer - an electrical device that makes a buzzing noise and is used for signalling. Bulb – an object that emits light. Motor - a machine that supplies motive power for a vehicle or for another device with moving parts. 	What children w Learning Teaching Remembering Telling Identify common applia on electricity. Identify common applia when working with elect What precautions need when working with elect Construct a simple series circuit, identifying and n parts, including cells, wir switches and buzzers	ill know Assessment Testing noces that run to be taken ricity. electrical aming its basic es, bulbs,	What ch Learning Practising Identify wher in a simple se whether or n complete loo Recognise th closes a circ whether or n simple series Recognise so and insulator with being g	ildren will ur Teaching Coaching ther or not a leries circuit, b tot the lamp i op with a bat nat a switch c uit and assoc tot a lamp ligi circuit ome commor rs, and associ ood conduct	Assessment Observing lamp will light based on s part of a ttery opens and ciate this with hts in a n conductors iate metals tors.	What chil Learning Reflecting Draw circuit: representati symbols are Observe par metals tend electricity, of more cells and Working Scie Report on fir including or explanation of results and Use results to make predia suggest imp further quess Use straightf to answer que findings.	Idren will be Teaching Facilitating s (these can be ion – convent introduced in tterns – for ex to be condured or that bulb ge ire added. entifically ndings from e al and writter s, displays or p d conclusions o draw simple ctions for new rovements ar tions forward scient uestions or to	able to do Assessment Evaluating De a pictorial ional circuit ample that ctors of et brighter as nquiries, presentations conclusions, values, nd raise tific evidence support their

Orton Wistow Primary School – Curriculum Plan

Subject : Science - Sound

Year : 4

Term : Autumn

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Vocabulary	Knowledge			Understanding			Skills		
	What children will know			What children will understand			What children will be able to do		
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating
 Vibration - Vibration or oscillation means quick-moving back and forth (or up and down) about a point of equilibrium. Pitch - The pitch of a sound is how high or low the sound is. (A squeaky sound is a high-pitched sound; A deep sound is a low-pitched sound) Volume - quantity or power of sound; the degree of loudness 	Identify how associating s something vi Recognise th travel throug Recognise th the distance increases.	sounds are m some of them ibrating. and vibrations gh a medium t nat sounds ge from the sour	rom sounds from sounds to the ear. t fainter as nd source	Find patterns sound and fe produced it Find patterns a sound and vibrations the	s between the eatures of the s between the I the strength at produced i	e pitch of a object that e volume of of the it	Use what the and volume instruments. Use what the insulating so such as ears the volume Working Sci Report on fir including or explanation of results an Use results to make predic suggest imp further ques Use straightf to answer q findings.	ey have learn to make their und to design muffs that he of sound reac entifically ndings from er al and written s, displays or p d conclusions o draw simple ctions for new rovements an tions	t about pitch own ed about a product lp to reduce hing the ear. nquiries, presentations conclusions, values, d raise ific evidence support their



Orton Wistow Primary School – Curriculum Plan

Subject : Science – Animals including humans.

Year : 4

Term : Spring

							M.		
Vocabulary	Knowledge What children will know			Understanding What children will understand			Skills What children will be able to do		
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating
 Food chain - a series of organisms each dependent on the next as a source of food. Producer - organisms who make (or produce) their own food Predator - A predator is an animal that hunts and eats other animals. Prey - is the animal that gets eaten by the predator. Carnivore - an organism that eats mostly meat. From the Latin carn which means flesh. Herbivore - an animal that feeds on plants. From the Latin herba – which means plant. Omnivore - an animal or person that eats a variety of food of both plant and animal origin. 	Describe the basic parts of humans Identify the of humans and	different types	ons of the e system in of teeth in unctions	Construct ar food chains, predators ar Pupils should main body p digestive sys teeth, oesop and large int explore ques understand t	d interpret a identifying pr nd prey. d be introduce parts associate tem (mouth, t phagus, stoma testine) and sh stions that help their special fu	variety of oducers, ed to the ed with the ongue, uch, small hould p them to unctions.	Working Sci Gather, rec data in a vo answering c Record find language, c diagrams, k	entifically ord, classify an ariety of ways questions ings using simp drawings, labe eys, bar chart	nd present to help in ble scientific lled s, and tables



Orton Wistow Primarv School – Curriculum Plan							
Subject : Science – States of	matter Year : 4	Tern	n : Spring				
Vocabulary Define the word and include	Knowledge What children will know Learning Teaching Assessing	Understanding What children will understand	Skills What children will be able to do the Learning Teaching Assessment				
 etymology if useful. Solid - A solid can hold its shape (for example, water in solid form is ice). Liquid - A liquid like water forms a pool: it flows or runs but it can't be stretched or squeezed. Gas - A gas can flow, expand and be squeezed; if it is in an unsealed container it escapes (water in gas form is steam). Temperature – degree or intensity of heat. Evaporation - the process of turning from liquid into vapour. Condensation - the conversion of a vapour or gas to a liquid. Melt – when a solid is heated and changes into a liquid. 	RememberingTellingTestinCompare and group materialstogether, according to whether the are solids, liquids or gases.Observe that some materials char state when they are heated or con- and measure or research the temperature at which this happen degrees Celsius (°C)	Practising Coaching Observing Identify the part played by evaporation and condensation in the water cycle and associate the rate o evaporation with temperature. Identify the part played by ge evaporation and condensation in the water cycle and associate the rate o evaporation with temperature. Identify the part played by ge in in Identify the part played by	ReflectingFacilitatingEvaluatingWorking ScientificallySet up simple practical enquiries, comparative and fair testsGather, record, classify and present data in a variety of ways to help in answering questionsRecord findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables				



Orton Wistow Primary School – Curriculum Plan

Subject : Science – Living Things & their habitats

Year : 4

Term : Summer

						M.			
Vocabulary V	Knowledge What children will know			Understanding What children will understand			Skills What children will be able to do		
Define the word and include etymology if useful.Learning RememberPlant – a living organism typified by growing in a permanent site, that absorbs water and inorganic matter through its roots and uses photosynthesis through its leaves.Recogn grouped wider end wider end wider end wider end specialised sense organs and nervous 	retrievent will g Teaching se that living thing and use classifica up, identify and r of living things in the intervent of the this can and that this can ngers to living thir	Assessment Testing gs can be ays tion keys to name a neir local and sometimes ngs.	Explore exan (both positive environment of nature res and the neg population of deforestation Use the loca answer ques identify and in their habit	Teaching Coaching nples of huma e and negativ s. (e.g. the part erves, or gard ative effects and developm n. I environment tions that help study plants of at.	Assessment Observing an impact ve) on ositive effects den ponds of nent, litter or to raise and o them to and animals	Reflecting Reflecting Group a wid that include plants and n Use and mal explore and animals. Working Scie Ask relevant different typ answer them Identify diffe changes rela ideas and pl Make system observations take accura standard uni equipment, and data log	rences, similar rences, simila	Assessment Evoluating f living things flowering plants. des or keys to l plants and d using c enquiries to arities or e scientific reful appropriate, nents using nge of rmometers	



the nourishment of their young. From the Latin – mamma – which means breast. Amphibian – cold- blooded animal, they are born in water and breath with gills. As the larva grows into an adult form they develop the ability to breathe air and they are able to live on land as well as in water. Insect – animals that have 3 major body parts (head, thorax and abdomen), 3 pairs of legs and typically 1 or two pairs of wings. From the Latin in which means into and secare which means to cut. Bird – warm-blooded, egg laying animal with feathers, wings and a beak and typically able to fly.		

