Orton Wistow Primary School – Curriculum Plan										
Subject : Science – Animals including I	Humans	Year :	5			Term	Autumn			
								M	>	
Vocabulary	What	Knowledge children wil			Jnderstandin nildren will un	•	What chil	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. Reproduce – to produce young.	Remembering	Telling changes as l	Testing	Practising	Coaching	Observing	Reflecting	Facilitating e gestation pe	Evaluating	
 Sexual reproduction – a process where two parents – one male and one female – are required to reproduce new life. Asexual reproduction – a process where one parents produces new life. Puberty - the period during which adolescents become capable of reproduction. Adolescence - The period that follows the start of puberty, during which a child develops into an adult. Fertilisation – the process of the male and female sex cells fusing together. Gestation - The development of an animal inside its mother's womb. 	 Cha chilc Cha 	old age, inclue inges in babie dren inges in pube inges that occ	es and rty		nanges in grov nt between hu		other anima with humans	ls and compo	aring them	
Menstruation – the process where the female body discharges the lining of the uterus. This happens approximately once a month.										

Orton Wistow Primary School – Curriculum Plan

Subject : Science – Properties and changes of materials

Year : 5

Term : Autumn

							M.			
Vocabulary	\A/b ort	Knowledge children wil			Inderstandir	•	What ab:	Skills What children will be able to do		
Define the word and include			Assessment		ildren will un					
	Learning	Teaching		Learning	Teaching	Assessment	Learning	Teaching	Assessment	
etymology if useful. Solution - a liquid mixture in which the minor component (the solute) evenly spread within the major component (the solvent). 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). Reversible - a change that can be undone or reversed. Irreversible - a change that cannot be undone or reversed Evaporate – when a liquid is heated and changes to a gas. Melt – when a solid is heated and change into a liquid. Filter - Removing small particles of insoluble or undissolved material from a liquid, usually by using a barrier with very small holes such as filter paper Dissolve - When a substance dissolves, it might look like it has disappeared,	in liquid to fo describe how substance fr Demonstrate	Telling ome materials orm a solution, w to recover a om a solution e that dissolvir es of state are	, and a ng, mixing	comparative particular us including me Explain that formation of this kind of c reversible, in	e and fair test es of everyda etals, wood ar some change new materia hange is not u cluding chan with burning a	ny materials, and plastic es result in the ls, and that usually ges	materials or properties, i hardness, so conductivity and respons Working Sci Plan different enquiries to including re variables wh Take measu scientific eq accuracy a	nt types of scie answer quest cognising and nere necessar rements, using uipment, with	heir harency, ind thermal), entific ions, d controlling y g a range of increasing taking repeat	



Orton Wistow Primary School – Curriculum Plan

Subject : Science - Forces

Y	е	a	r	•	5
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Term : Spring

							M.		
Vocabulary	What	Knowledge children wil			Inderstandin ildren will un		What chil	Skills dren will be	able to do
Define the word and include etymology if useful. Friction - the resistance that one surface or object encounters when moving over another. Air resistance - Friction occurs when objects move through water or air. Air resistance is a type of friction between air and another material. Gravity - the force that attracts a body towards the centre of the earth, or towards any other physical body having mass. Levers - a rigid bar resting on a pivot, used to move a heavy or firmly fixed load with one end when pressure is applied to the other. Pulleys - a wheel with a grooved rim	towards the force of grav	Teaching Telling Unsupported Earth becaus <i>i</i> ity acting be e falling objec	e of the tween the	water resista between mo Recognise th including lev	Teaching Coaching effects of air re nce and fricti oving surfaces nat some mec rers, pulleys ar ler force to ho ct.	on, that act chanisms, nd gears,	parachutes determine w effective. Design and u levers, pulley and explore Working Scie Record data complexity u and labels, o scatter grap Use test resu	Teaching Facilitating make a varie and carry out thich designs make product s, gears and/ their effects. Entifically a and results of using scientific classification k hs, bar and lin lts to make pre- pr comparativ	of increasing clagrams ceys, tables, ne graphs redictions to



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acts to change the direction of a force applied to the cord and is used to raise heavy weights		
Gears - a toothed wheel that works with others to alter the relation between the speed of a driving mechanism (such as the engine of a vehicle) and the speed of the driven parts (the wheels)		

Orton Wistow Primary School – Curriculum Plan											
Subject : Science – Space		Year : 5						Term : Summer			
							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 etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating		
Planet - a celestial body moving in an elliptical orbit round a star. From the Greek 'asters planetai' which means wandering star.	Describe the movement of the Earth, and other planets, relative to the Sun in the solar system			Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.			Compare the time of day at different places on earth using internet links and direct communication.				
Moon - a celestial body that makes an orbit around a planet Star - an astronomical object	Know that the sun is a star at the centre of our solar system and that it has 8 planets; Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and			Understand how the geocentric model of the solar system gave way to the heliocentric model by considering			Construct simple shadow clocks and sundials. Working Scientifically				
consisting of a luminous spheroid of plasma held together by its own gravity.	Neptune. (Pluto was reclassified as a dwarf planet in 2006.)			the work of scientists such as Ptolemy, Alhazen and Copernicus.			Report and present findings from enquiries, including conclusions, causal relationships and explanations				



		OWPS Curriculum 2.0
Solar System - the collection of eight planets and their moons in orbit round the sun, together with smaller bodies in the form of asteroids, meteoroids, and comets. Orbit the curved path of a celestial object or spacecraft round a star, planet, or moon, especially a periodic elliptical revolution.	Know that a moon is a celestial body that orbits a planet (Earth has 1 moon; Jupiter has 4 large moons and numerous smaller ones.) Describe the movement of the Moon relative to the Earth Describe the Sun, Earth and Moon as approximately spherical bodies	of and degree of trust in results, in oral and written forms such as displays and other presentations Identify scientific evidence that has been used to support or refute ideas or arguments.

Orton Wistow Primarv School – Curriculum Plan									
Subject : Science - Living Things and Their Habitats Year : 5									
								M	>
Vocabulary	What	Knowledge t children will		Understanding What children will understand			Skills What children will be able to do		
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating
Mammal – a warm-blooded vertebrate animal that has hair or fur typically gives birth to live young and includes females that secrete milk to feed their young. From the Latin – mamma – which means breast.	Describe the life process of reproduction in some plants and animals including sexual and asexual reproduction in plants, and sexual reproduction in animals.			Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Pupils should find out about			Study and raise questions about their local environment throughout the year. Observe life-cycle changes in a variety of living things, for		



		OWPS Curriculum 2.0
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.	different types of reproduction, including sexual and asexual reproduction in plants, and sexual reproduction in animals.	example, plants in the vegetable garden or flower border, and animals in the local environment. Find out about the work of naturalists and animal
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.		behaviourists, for example, David Attenborough and Jane Goodall. Working Scientifically
Bird – warm-blooded, egg laying animal with feathers, wings and a beak and typically able to fly.		Report and present findings from enquiries, including conclusions, causal
Reproduction – production of offspring by a sexual or asexual process. Plant – a living organism typified by growing in a permanent site, that absorbs water and inorganic matter		relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
through its roots and uses photosynthesis through its leaves. Animal – living organism that feeds on organic matter, typically having specialised sense organs and nervous		Identify scientific evidence that has been used to support or refute ideas or arguments.
system and being able to respond rapidly to stimuli.		

