

Knowledge organiser Nursery – Year 2			Subject: Science	
Aspect	Nursery	Reception	Year 1	Year 2
Working Scientifically	<ul style="list-style-type: none"> -ask questions about the world around them -use open ended resources with some support and scaffolding from adults -explore the natural environment 	<ul style="list-style-type: none"> -ask and answer questions about the world around them -explore the natural environment and be motivated to find out by explaining what they are doing 	<ul style="list-style-type: none"> -Know what a fair test is -perform simple tests and investigations which are adult directed -make predictions 	<ul style="list-style-type: none"> -plan fair tests -ask a range of scientific questions -record and explain results and say what they may have done differently next time -know and use the terms 'control' and 'variable'
Plants	<ul style="list-style-type: none"> -plant seeds and bulbs and know how to take care of them when they are growing -observe and discuss changes observed using appropriate vocabulary -begin to name parts of plant; leaf, flower, root 	<ul style="list-style-type: none"> -name and label the parts of a plant; leaf, stem, root, petal, flower 	<ul style="list-style-type: none"> -know about the difference between evergreen and deciduous plants -know the basic structure of plants; leaf, stem, root, flower, petal and the function of these parts 	<ul style="list-style-type: none"> -know the basic structure of plants; leaf, stem, root, flower, petal and the function of these parts -understand and explain why plants need light, water and correct temperature to grow
Animals including humans	<ul style="list-style-type: none"> -know how humans and animals move using a range of verbs; running, jumping, crawling -name animals and compare differences between animals who live on the farm and animals who live in the zoo -learn simple names for garden insects and understand how to respect the habitat of insects 	<ul style="list-style-type: none"> -know the body parts of insects; thorax, legs, abdomen, head, antennae -know and understand the life cycle of a butterfly and sea creatures 	<ul style="list-style-type: none"> -know the five senses -Identify, name and label basic parts of the human body and skeleton -classify animals into different groups amphibians, reptiles, mammals, birds, fish -know about the habitat, diet and behaviour of animals -compare the diet of herbivores, omnivores and carnivores animals 	<ul style="list-style-type: none"> -understand how humans can keep themselves healthy -explain the life cycle of a penguin -Compare and identify the differences between things that are living, dead and things that never lived. -Identify how animals are adapted to their environment – explain how penguins have blubber and feathers to live in Antarctica -Identify microhabitats within a habitat

				-know the food chain of a different animals including penguins -know the parts and functions of the parts of the human digestive system -
Seasonal Changes	-know how to dress for seasonal changes -observe changes in the natural environment and comment on changes observed -know it is 'today' and understand 'now' and 'next' -know the days of the week in order	-know the names of the four seasons and some features of the seasons through the text 'a tiny seed' -understand and use the words 'today', 'yesterday' and 'tomorrow'	-know and record the weather for each season -know the different types of clouds; cumulus, nimbus, Columbus, stratus -know and use the vocabulary 'this week'	-know which months are in each season -know the months of the year in order
Materials	-describe the texture of materials; hard, soft, bumpy, rough, smooth -choose and use materials for a purpose and talk about why they have chosen that material	-know and understand the terms 'waterproof' and 'not waterproof' -use materials to achieve a planned effect	-distinguish and identify between an object and the material that it is made from. -know and understand the terms 'opaque' 'translucent' and 'transparent' -use and understand the terms 'waterproof' and 'absorbent'	-test the suitability of materials for a purpose and explain results -know how materials can change by bending, snapping, twisting