Donnington Wood Infant School and Nursery

	Nursery 2s			Nursery 3s			Reception		
	Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	Summer
	 Make connect Notice differer Make connect their setting Repeat action 	Lees between people lons between the features of their fai loss between people. – recap body p joins and notice differences between u s that have an effect – banging, shal s that have an effect – Vehicles - pu length of the state of the state of the properties – models, which different properties – nodels, which different natural phenomena in their setting – Spring	varts, uniforms, jobs. different natural phenomena in king	Talk about wh Explore how tH Explore and ta Explore collect Make healthy Begin to under all living thing Understand th seed - plant, t	Ik about the different forces that the ions of materials with similar and/or choices about food, drink, activity a rstand the need to respect and care s at living things grow and change ov	y can feel – moving vehicles different properties nd toothbrushing. for the natural environment and er time – recognise key feature eg	wellbeing Describe what Understand th Understand sc Talk about th thingslitter Recognise som	c about the different factors that sup they see, hear and feel whilst outsit effect of changing seasons on the owne key features of a basic lifecycle ferences between materials and the enced to respect and care for the nu , recycling, sorting the environments that are different to ne of animals that will be seen at sa Manue to the seasons Understand how trees change from Auturn to yetring Know that weather changes through the seasons Know that work to look after themselves in the watere of coats, hats Know that different materials and change on that different materials in dothing can use different materials and change – og ice to water/water to ice Know how to look after their community - litter	de. – senses natural world around them eg plant, animal, human changes they notice. atural environment and all living the one in which they live. – link
	Marvellous me Festivals/ celebrations	Transport People who help us	Our garden On the farm	Marvellous me Festivals/ celebrations	Transport People who help us	Our garden On the farm	Our body Our family	Local area People who help us	Minibeasts Pets
Context/experiences	 Musical celebration- exploring instruments Autumn textures/seeds/leaves/ colours Looking in mirrors, studying each other's bodies. 	 ✓ CIL ✓ Tuff trays/water trays ✓ Willow school 	 ✓ CIL ✓ Experiencing indoor and outdoor environment ✓ 	 Musical celebration- exploring instruments, making instruments. 	 Visit from dentist Visit from school nurse Opticians visit PE – Exercising Jigsaw – Healthy me 	 Park visit Farm on wheels Plant sunflower seed and care for- transfer to Reception - transition 	 Rules in school Looking at pictures of themselves as babies - I can (W) Painting a picture of themselves (CWM) Heads shoulders Knees and toes (BI) Look at sunflowers planted in Nursery - how have they changed? 	Viat from dentat Viat from school nurse Opticians viat PFE_Exercising Jigsow -Healthy me Experimeng outside in winter - ice	 Bug hotel Viewing minibeasts How to look after pets Litter pick Composting fruit waste Using compost to plant Visit governor – tarantula Exotic zoo

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y1	Weather and Seasons Humans – Parts of the body and senses	Plants and trees	Materials	Animals	Parts of a plant	Weather and Seasons
Year 1 Milestones	Observe seasonal changes Observe and describe weather associated with the seasons and how day length varies. Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Identify & describe the basic structure of a variety of common flowering plants, including trees.	Distinguish between an object & the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday material Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)	Identify & describe the basic structure of a variety of common flowering plants, including trees. Observe seasonal changes	Observe seasonal changes Observe and describe weather associated with the seasons and how day length varies.
	Question	Observation	Test	Classify	Hypothesise	Gather and Record
Skill Focus	Working ScientificallyAsking simple questions and recognising that they can be answered in different waysObserving closely, using simple equipmentPerforming simple testsIdentifying and classifyingUsing their observations and ideas to suggest answers to questionsGathering and recording data to help in answering questions		Working ScientificallyAsking simple questions and recognising that they can be answered in different ways Observing closely, using simple equipmentPerforming simple testsIdentifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions		Working Scientifically Asking simple questions and be answered in different wa Observing closely, using sim Performing simple tests Identifying and classifying Using their observations and to questions Gathering and recording da questions	ys iple equipment d ideas to suggest answers

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y2	Basic needs of humans	Living, dead, never alive Food chains	Materials	Life Cycles	Basic needs of plants Growing plants	Habitats including microhabitats.
Year 2 Milestones	Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	Explore & compare the differences between things that are living, dead, and things that have never been alive Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Notice that animals, including humans, have offspring which grow into adults	Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Identify and name a variety of plants and animals in their habitats, including micro-habitats
	Question	Classify	Test	Observe	Hypothesise	Gather and Record
Working ScientificallyAsking simple questions and recognising that they can be answered in different waysObserving closely, using simple equipmentPerforming simple testsFocusIdentifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions		Working ScientificallyAsking simple questions and recognising that they canbe answered in different waysObserving closely, using simple equipmentPerforming simple testsIdentifying and classifyingUsing their observations and ideas to suggest answersto questionsGathering and recording data to help in answeringquestions		Working ScientificallyAsking simple questions and recognising that they canbe answered in different waysObserving closely, using simple equipmentPerforming simple testsIdentifying and classifyingUsing their observations and ideas to suggest answersto questionsGathering and recording data to help in answeringquestions		

Science Progression – Working Scientifically

	Nursery 2/3	Nursery 3/4	Reception	Y1	Y2	End KS1	beyond
			exploring	with adult support	generally	Ena KS I	independently
Question	Understands 'who' 'what' 'where' in simple questions asked. Uses a variety of questions (eg. What, where, who)	Beginning to understand how and why questions asked. Questions why things happen and gives explanations. Asks e.g. who, what, when, how. Comments and asks questions about aspects of their familiar world such as the place where they live or the natural world.	Children follow instructions involving several ideas or actions. They answer 'how' and 'why' questions about their experiences and in response to stories or events.	Ask Simple Questions With help, I can use: Why, What if, How and When	Ask Simple Questions I can use practical activities to ask my own questions I can ask simple questions about how things change or how they happen or what will happen if? I can sort questions into those that can be answered by trying it out and those that cannot.	Asking simple questions and recognising that they can be answered in different ways	simple questions are asked. questions that lead to scientific enquiry are asked independently.
Observe	Notices detailed features of objects in their environment.	Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work.	Looks closely at similarities, differences, patterns and change. (Objects, materials, living things.) They make observations of animals and plants and explain why some things occur, and talk about changes.	Observe closely with <i>simple</i> equipment With help, I can use simple equipment to collect data I recognise some simple equipment we use	Observe closely with <i>simple</i> equipment I can make simple measurements I can use simple equipment e.g. handlenses and egg timers to gather data	Observing closely, using simple equipment	an explanation can be given as to why something has happened, using appropriate scientific vocabulary. close observations are made using simple equipment.
Test	Understands use of objects (eg. What do we use to cut things.) Explores objects by linking together different approaches: shaking, hitting, looking, feeling, tasting, mouthing, pulling, turning and poking.	Can select and use activities and resources with help. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.	Manipulates materials to achieve a planned effect. Constructs with a purpose in mind, using a variety of resources. Uses simple tools and techniques competently and appropriately. Selects appropriate resources and adapts work where necessary.	Perform simple tests I state what I am doing now. I am beginning to say what to do next.	Perform simple tests I have experienced different ways of asking questions. I have started to work on different types of enquiry. I am beginning to recognise the ways I can answer questions. I can carry out simple tests.	Performing simple tests	more complex tests, such as fair tests, are beginning to be performed.

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Classifu	Beginning to organise and categorise objects, e.g. putting all the teddy bears together or teddies and cars in separate piles Distinguishes between the different marks they make.	Builds up vocabulary that reflects the breadth of their experiences. Sometimes gives meaning to marks as they draw and paint	Extends vocabulary, especially by grouping and naming. Gives meaning to marks they make as they draw, write and paint.	Identifying and Classifying I use my senses to observe & start to describe simple features of objects, events / living things. I respond & begin to sort appropriately with regard to simple features. I can observe a change. I begin to make simple comparisons. Gather and record data I communicate and draw simple	Identifying and Classifying I can explore the world around me. I can make comparisons of objects, materials and living things. I decide on how to group and sort things with help. I observe changes over time. Gather and record data I can record simple data.	Identifying and classifying Gathering and recording data to help in answering	classify using more complicated taxonomies, etc. observations are recorded using ICT & on paper,
Gather & record	Creates and experiments with symbols and marks representing ideas of number.			pictures of my findings with help. I can add blocks to towers, showing early measurement. I can stick pictures onto a chart drawn for me. With help, I can use simple books and other sources to help find out about simple scientific ideas.	I can record what I found out in a variety of ways. (<i>ICT and on paper,</i> <i>using text, drawings and labelled</i> <i>diagrams</i>) I fill in a tally chart if the teacher makes it for me or with help. I can use simple chart templates provided to communicate with help. I ask people questions to find out answers. I can use simple secondary resources to help find answers	questions. (And recognise that they can be answered in different ways.)	le r a on paper, using text, drawings and labelled diagrams. prepared tables & block graphs are used to present information data is gathered & recorded to help in answering questions.
Hupothesise	Explores objects by linking together different approaches: shaking, hitting, looking, feeling, tasting, mouthing, pulling, turning and poking.	Talks about why things happen and how things work.	Develop their own narratives and explanations by connecting ideas or events.	Use observations and ideas to suggest answers to questions. I begin to tell others some differences and similarities. I use annotate drawings and simple sentences to communicate. I can state what happened or what we did.	Use observations and ideas to suggest answers to questions. I am beginning to notice patterns with help. I can talk about what has happened and how I found it out. I am beginning to use some simple scientific language to share what I found out. I describe obs. simply with a range of vocab.	Using their observations and ideas to suggest answers to questions	observations and ideas are used to suggest answers to questions. systematic observations and measurements of what is observed are made.

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Science Progression – Scientific Knowledge

	Nursery 2/3	Nursery 3/4	Reception	Y1	Y2	beyond		
	Notices detailed features of objects in their environment.	Can talk about some of the things they have observed such as plants, animals, natural and found objects. Developing an understanding of growth, decay and changes over time.	Make choose of	identify & name a variety of common wild & garden plants, including deciduous & evergreen trees		identify & describe the functions of different parts of flowering plants		
Plants			Make observations of plants and explain why some things occur, and talk about changes. Looks closely at similarities, differences, patterns and change.	identify & describe the basic structure of a variety of common flowering plants, including trees.	observe and describe how seeds and bulbs grow into mature plants	explore the requirements of plants for life & growth & how they vary from plant to plant investigate the way in which		
					find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	water is transported within plants explore the part that flowers play in the life cycle of flowering plants		
		es detailed res of objects in environment. Comments and asks questions about aspects of their familiar world such as the place where they live or the natural world.	1 5	1 3	Children know about		explore & compare the differences between things that are living, dead, and things that have never been alive	
their habitats	Notices detailed features of objects in their environment.		similarities and differences in relation to living things.		describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.			
Living things and their habitats			uestions about aspects f their familiar world uch as the place there they live or the their own immediate		identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other			
			Shows care and concern for living things and the		identify and name a variety of plants and animals in their habitats, including micro- habitats			
Seasonal changes	Notices detailed features of objects in their environment.	ices detailed questions about aspects patterns and change. ures of objects in renvironment such as the place of their own immediate c	btices detailed of their familiar world of their familiar world	observe changes across the four seasons				
			observe and describe weather associated with the seasons and how day length varies.					

	Enjoys playing with	Can talk about some of the things they have observed such as plants, animals, natural and found objects. Shows care and concern for living things and the environment	atural -Children know about	identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals	notice that animals, including humans, have offspring which grow into adults	
humans	small world models such as a farm. Beginning to organise			identify and name a variety of common animals finance that are carnivores, herbivores and omnivores e	find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	identify that animals, including humans, need the right types & amount of nutrition, & that they
: including humans	and categorise objects, e.g. putting all the teddy bears together or teddies and cars in				describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	cannot make their own food; they get nutrition from what they eat
Animals	separate piles			describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)		identify that humans & some other animals have skeletons &
				identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.		muscles for support, protection & movement
	Notices detailed features of objects in their environment.	Can talk about some of tures of objects in ir environment.Can talk about some of the things they have observed such as natural and found objects.ates sounds by nging, shaking, ping or blowing.natural and found objects.lores and periments with anatural and how things work.	e patterns and change Children know about similarities and differences in relation	distinguish between an object & the material from which it is made		
erials	Creates sounds by banging, shaking, tapping or blowing.			identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock		
Everyday materials	Explores and experiments with a range of media		to materials. Experiments to create different textures.	describe the simple physical properties of a variety of everyday material	identify and compare the suitability of a variety of everyday materials, including wood, metal,	
Every	exploration, and using	Realises tools can be used for a purpose	Selects and uses technology for particular purposes.	compare and group together a variety of everyday materials on the basis of their simple	plastic, glass, brick, rock, paper and cardboard for particular uses	
	Experiments with blocks, colours and marks.		Manipulates materials to achieve a planned effect.	physical properties.	find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	