



<u>Autumn 1</u> <u>Marvellous Me</u> • Humans			
 DM Objectives Begin to make sense of their own life- story and family's history. Continue developing positive attitudes about the differences between people. Use all their senses in hands-on exploration of natural materials. 	 Overview Encourage children to describe how they have changed since they were babies. Encourage children to talk about how to care for a baby. Encourage children to ask questions of an expectant mother, parent with a baby and elderly person. Encourage children to talk about what they can do now that they were not able to do when they were babies, including how to look after themselves. Encourage children to talk about objects using their senses to describe them. 	Encouraging Scientific Enquiry Classification • Sort images of humans according to their age. • Sort using different senses. Which do you like/not like? <u>Observing over time</u> • How does a baby change over time? • Research using secondary sources • Find out about the human life-cycle from an expectant mother, parent with a baby and elderly person.	





<u>Autumn 2</u> <u>Feelings</u> • Materials including changing materials • Light • Sound			
 DM Objectives Talk about the differences between materials and changes they notice. Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Know that there are different countries in the world and talk about the differences they have 	 Overview Encourage children to talk about the materials they explore, using their senses. Encourage children to choose from a range of materials when making models. Encourage children to join materials together to make something. Support children to name the material they have used. Encourage children to talk about why they have chosen a particular material, naming at least one property. Encourage children to talk about the changes when ingredients are mixed, cooked, heated and cooled, frozen and blended. Encourage children to compare the brightness of different light sources. 	 <u>Classification</u> Sort materials using simple properties. <u>Observing over time</u> How does the cake mixture change? How does chocolate change when heated? How does fruit juice change when put in the freezer? How does fruit change when blended? 	





 experienced or seen 	 Encourage children to talk about what they see in 	
in photos.	the dark den and how it changes when a light source	
 Talk about the 	is on or off.	
differences in	 Encourage children to talk about what they see 	
materials and	when they shine light onto or through different	
changes they notice.	objects or materials.	
• Explore how things	 Encourage children to talk about how their 	
work.	reflection changes in different mirrors.	
	 Support children to notice that they see their 	
	reflection on shiny objects and encourage them to	
	predict which objects they will see their reflection	
	in.	
	 Encourage children to draw what they see in 	
	different mirrors.	
	 Encourage children to ask questions about light sources. 	
	 Encourage children to describe the sounds they 	
	hear.	
	Encourage children to talk about how they make	
	sounds using their bodies and musical instruments.	
	 Encourage children to adapt the instruments they 	
	make, e.g. changing elastic bands on guitars, using	
	different materials for drum skins etc., and talk	
	about how the sound changes.	
	 Encourage children to talk about how sounds and 	
	music make them feel.	





	Spring 1 <u>Animal Magic</u> • Animals excluding Humans • Living Things and their Habitats			
DM Objectives	Overview	Encouraging Scientific Enquiry		
 Understand the key features of the life cycle of a plant and an animal Begin to understand the need to respect and care for the natural environment Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. 	 Encourage children to use all appropriate senses to explore the parts of plants on the walk, including the leaves, stems/trunks, flowers, seeds, berries and fruit. Encourage children to identify things left by humans in the surrounding natural environment e.g. litter. Remind children not to damage the plants in any way and only gather natural objects from the ground. Encourage children to talk about the objects in the collection, including where they came from on the walk and whether they were part of a plant, animal or neither. Encourage children to talk about the natural objects that they are observing closely, drawing and sorting. 	Observing over time • How does the change over time? <u>Researching using secondary sources</u> • Find out more about the life cycles of the animals observed. <u>Classification</u> • Match animals and their young. • Find and identify natural objects to include in the collection. • Which natural objects are from plants, animals or neither?		





	 Encourage children to look for patterns on the natural objects in the collection. Encourage children to identify items in the collection that are the same or similar. Encourage children to ask questions about the surrounding natural environment and the natural objects in the collection. 	
	Spring 2	
<u>Old MacDonald had a Farm</u> Animala avaluding Humana		
 Animals excluding Humans Living Things and their Habitats 		
Elving Things and Their Habitats Plants		
DM Objectives	Overview	Encouraging Scientific Enquiry
 Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things Use all their senses in hands-on 	 Encourage children to observe young animals closely and talk about how they change over time. Encourage children to name and describe animals and their young, including how they change over time, while reading books, watching videos, looking at pictures or playing matching games. Encourage children to ask questions about different animals and their young 	 <u>Observing over time</u> How does the change over time How does a plant change as it grows? What happens to fruit, vegetables and flowers when left over time? <u>Researching using secondary sources</u> Find out more about the life cycles of the animals observed. Look at seed and bulb packets to learn how to plant and care for them.









environment and the natural objects in	
the collection.	

	Summer 1 <u>People Who Help Us</u> • Humans • Forces		
DM objectives	Overview	Encouraging Scientific Enquiry	
 Use all their senses in hands-on exploration of natural materials. Understand the key features of the life cycle of a plant and an animal. Explore how things work. Explore and talk about different forces they can feel. Talk about the differences between 	 Encourage children to push floating objects under water and talk about how it feels the further they push the object under the water. Encourage children to talk about what happens when they release an object under the water. Encourage children to play with the magnets talking about how they push away or pull towards each other. Encourage children to use bikes and scooters on different surfaces. Encourage children to ride scooters and bikes up and down ramps. Encourage children to drop objects into water and observe what happens. 	 <u>Comparative testing</u> Compare the path of different wind-up toys. Compare how far different wind-up toys move. Compare the speed and direction of gears. Compare how easy or hard it is to lift an object with or without a pulley. Compare how easy it is to ride a scooter or bike on different surfaces. <u>Classification</u> Sort objects according to whether they float or sink. Sort objects/materials according to whether their shape can be changed. 	





materials and changes they notice	 Encourage children to predict whether objects will float or sink. Encourage children to talk about how they change the shape of objects. Encourage children to talk about how they join materials together using different forces. Encourage children to talk about what they feel when using the woodwork tools and building kits. Encourage children to talk about how toys containing springs and elastics work. Encourage children to talk about how wind-up toys, pulleys and gear toys work. Encourage children to ask questions about forces, such as "What happens if I?" 	
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Summer 2 <u>Moving On, Moving Up</u> • Humans • Electricity			
DM objectives	Overview	Encouraging Scientific Enquiry	
 Explore how things work 	 Encourage children to find devices that are plugged into sockets. Tell them to never plug in or unplug devices without adult supervision. Encourage children to take photographs of electrical devices at home. Encourage children to switch devices on and off that use batteries. Tell children to never open the battery compartment of electrical devices without adult supervision. Encourage children to talk about what electrical devices do. Encourage children to talk about recharging devices e.g. remote-control cars, hearing aids, tablets. Encourage children to ask questions about electrical devices and how they work. Encourage children to remind adults to switch off electrical devices to conserve electricity. 	Classification Identify objects that use electricity to work. Identify devices that use batteries and/or mains electricity.	



