The Red Door School



Science School Plan

Developed: 2020-2021

Next Review date: 2021-2022



School Plan: Science

Month	Theme	Year 1	Year 2
S	Myself	Strand: Materials and Change	
		Strand units: Heating and Cooling	Strand units: Heating and Cooling
E		Exploring the effects of water on a variety of materials	Identify some materials that are waterproof
Р		(Water Play using different types of paper)	(My rainy day clothes)
Т			
-		General:	General:
E		As well as discussing what papers can be used, discuss and record	Discuss and compare suitable and unsuitable clothing for rainy weather.
M		predictions as to what might happen to the different types of paper.	Predict what happens to different clothing under such conditions.
В		Mix papers (tissue, paper, card, carboard) with water to observe and	Experience group outside in the rain, while recording the differences in
		experience the way materials change when wet.	suitability for difference clothing and how it reacts in the rain.
E		Discuss predictions and how they were similar/different from	
R		observations during the experiment.	Mild:
			Compare what clothes are suitable and which are <u>not</u> suitable for rainy
		Mild:	weather, identifying which clothes are worn on rainy, sunny and cold
		Before the experiment, discuss and record ideas on what different	days, and how they differ.
		papers can be used and what materials are needed.	Experience group outside in the rain, while wearing the discussed
		Mix papers (tissue, paper, card, carboard) with water to observe and	materials and clothing needed.
		experience the way materials change when wet.	
		Ada damata.	Moderate:
		Moderate:	Weather group to discuss and suggest materials or clothes suitable for
		Mix papers (tissue, paper, card, carboard) with water to observe and	rainy days, and identify the clothes he/she wears on a rainy day.
		experience the way materials change when wet.	Experience group outside in the rain, while wearing the discussed
			materials and clothing needed.
		Linkage/Integration:	Linkage/Integration:
	My Family	Strand: Materials and Change	
		Strand units: Heating and Cooling	Strand units: Heating and Cooling
		Observe and describe materials when they are wet and when they are	Explore the effects of heating and cooling on everyday objects and
		dry	materials
		(Paper Mâché Mud pies – messy art based activity)	(Changes to food – cooling and melting. What can we cook at home
			with our family? Edible slime and melted ice cream)
		General:	
		Discuss materials needed to make different objects (sand for	
		sandcastles/soil for mud pies/paper, glue and water for paper mache)	General:



		Experiment, measure and record exact amounts of each material required for each object. Observing the effect of pouring of milk and mixing water with soil or sand to make mud pies or sandcastles. Make observations during the lesson.	Observe and anticipate the way food changes when cooked or baked. Record the different states of the food during its transitions. Exploring ways in which liquids and solids may be kept hot or cold and respond with interest to the ways in which ice-cream, butter, chocolate, water, popcorn, toffee, syrup change when heated/cooled
		Mild: Structured experimentation using paper, soil/sand, water, milk and glue to recreate paper mâché and mud pies/sandcastles from examples given. Observing the effect of pouring of milk and mixing water with soil or sand to make mud pies or sandcastles. Make observations during the lesson.	Mild: Prepare the materials needed for experimenting with food. Actively and safely assist in the cooking and baking food process, while exploring ways in which liquids and solids may be kept hot or cold and respond with interest to the ways in which ice-cream, butter, chocolate, water, popcorn, toffee, syrup change when heated/cooled. Take ice-cubes from the freezer to cool drinks
		Moderate: Free play experimentation using paper, soil/sand, water, milk and glue. Observing the effect of pouring of milk and mixing water with soil or sand to make mud pies or sandcastles. Make observations during the lesson.	Moderate: Observing that an ice-cream will melt if left near heat or in the sun, that chocolate can be melted in the microwave. Starburst can be melted in microwave to make slime. Exploring ways in which liquids and solids may be kept hot or cold and respond with interest to the ways in which ice-cream, butter, chocolate, water, popcorn, toffee, syrup change when heated/cooled
		Linkage/Integration: History/Literacy – Stories	Linkage/Integration:
0	Autumn	Strand: Materials and Change	
		Strand units: Mixing and Other Changes	Strand units: Mixing and Other Changes
C		Begin to investigate how materials may be changed by mixing (Liquids that will not mix and those that can't be separated – colour potions – autumn colours)	Explore some simple ways in which materials may be separated (Simple to complex reversible mixing)
'		potions – autumn colours)	General:
0		General:	Group discussion foe predictions in separating soil and water mixture.
В		Comparing difference between irreversible changes - mixing paint and water potions – which mixes faster, textures and brightness of colours.	Mixing soil and water to produce dirty water. Using coffee filters to filter the dirty water, removing the soil from the water. Repeat until all the
Е		Baking cakes. Measuring exact ingredients. Predictions for outcome. Noting whether cake can be changed back to original ingredients.	soil is removed from the water.
R		Mild:	
			Mild:





		An Ooras Oears
	Investigating and explores changes that cannot be reversed. Mixing ingredients to bake cakes. Bake cake. Note how ingredients cannot be separated again. Moderate: Exploring and investigating irreversible changes. Mixing paints to create new colours. Mixing water and food dye, then mixing together to create potions. Explore liquids that will not mix (oil and water)	Mixing sand and water. Using sieves of varying meshes during sand and water play to separate the materials. Moderate: Mixing metal counters/paper with other materials. Using magnets or ruler charged with static electricity to separate materials Mixing stones and water. Using pincer grip to remove stones from water during water play to separate the materials.
	Linkage/Integration:	Linkage/Integration:
Halloween	Strand: Materials and Change	
(History)	Strand units: Mixing and Other Changes	Strand units: Mixing and Other Changes
, , , ,	Examine the changes that take place in materials when physical forces	Explore some simple ways in which materials may be separated
	are applied	(Gross Halloween mixtures)
	(Mixing with force - eggs, cream, sweets, water, washing up liquid,	
	playdough)	General:
	General: Predicting what might happen when materials are changed by what we do to them. Baking Halloween fairy cakes. Beating/Whisking eggs and ingredients. Mixing water and icing sugar to make icing for the cakes. Adding food dye to colour the muffins and the icing.	Mixing salt, sand and water. Discuss and question how the three materials might be separated once mixed. Mixing all three. Using coffee filter/sieve, the sand is removed. Discuss how water and salt can be separated. Take a small amount of the salty water and boil under the water evaporates and only the salt remains.
		Mild:
	Mild: Investigate	Oil and water. Will it mix? Investigating whether the two materials mix or not. How to separate the two if the do/don't.
	Moderate: Observing the changes when materials are beaten, whisked, mixed, squashed, pulled, or bent and the effect of whisking water and washing-up liquid	Moderate: Mixing sand and water. Using sieves of varying meshes during sand and water play to separate the materials.
	Using manipulative skills to mould materials	
	Explore how some materials can be squashed, bent, squeezed,	
	hammered, twisted, stretched	
	Linkage/Integration:	Linkage/Integration:
N Planet Earth In Space	Strand: Living Things	



0		Strand units: Myself	Strand units: Myself
V		Attend to the varying physical characteristics of self, adults and other	Recognise and measure physical differences between people, while
E M		students/ identify parts of the body	naming and identifying external parts of the male and female body
В		(Me and everyone around me)	(What makes us all different)
E		General:	, ,
R		Taking photos of various people in school and making simple to complex	General:
		jigsaws from the pictures of people cut up. Cutting and labelling the	Shadow portraits. Sitting in front of the light from the projector and
		body parts of each person and then putting the jigsaw back together.	tracing an outline of their portrait. Portrait is cut out and the various
		The state of the s	facial parts are named and labelled.
		Mild:	My body. What are the different names for the parts of the body and
		Participating in games such as "Simon says", "Hokey Pokey" and carry	are they different to others? (Comparing and recording differences
		out actions on verbal request	hair/eye colour, height, age, gender)
		Recognising and initiating actions involving main parts of the body.	Hall/eye colour, height, age, genaci
		Recognising and initiating actions involving main parts of the body.	Mild:
		Moderate:	Identifying (by naming, signing or pointing) parts of the body, using
		Pointing out family members, friends, class members in group photos.	appropriate anatomical terms, where possible.
		Showing by expression, gesture or vocalisation that changes in	Identify differences in age and height)
		appearance of each person are noticed.	identity differences in age and fleight)
		Identifying, by touch or other means, some of the main parts of the	Moderate
		body and what these parts do.	Moderate: Identify differences in hair colour, eye colour, skin colour
		Mirror play - looking in the mirror and imitate adult actions involving	Point to/sign parts of the body
		main parts of the body.	Measuring height, using measuring chart
			Identify (by naming, signing or pointing to) parts of the body, using
			appropriate anatomical terms. where possible
			Point to/sign parts of the body
_		Linkage/Integration:	Linkage/Integration: Science - Materials
D	Christmas	Strand: Energy and Forces	Te. 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E	(History)	Strand units: Magnetism and electricity	Strand units: Magnetism and electricity
С		Use magnets of different shapes and sizes in purposeful play, to	Respond to sensory experiences provided by a variety of electrical
Е		explore their effects on different materials and investigate the fact	appliances and equipment and explore the effects of static electricity
M		that magnets attract certain materials	(Electric Sensory Group)
В		(Magnet Play)	
E		General:	General:
R		Learn that magnets can push or pull magnetic materials (10 Frame	Predicting and experimenting with static electricity. What will it do and
17		Magnetic wand and counters). Exploring how magnets have poles and	how can we do it? Attracting pieces of tissue paper by rubbing a balloon
		investigate how these poles attract and repel each other.	on his/her head. Take it a step further with static worms. Designing and
		Investigate how magnets may be made.	



		Using these ideas to make a fishing game using magnets (One on a piece of string and cutting out fish and placing small magnets on them) Experimenting further to see if theses magnets work through cardboard, water, plastic, paper, wood Mild: Exploring how magnets have poles, and investigate how these poles attract (pull) and repel (push) each other Investigating that magnets attract certain materials through other materials Investigating if the force of the magnet can be blocked by putting something in its way, or by wrapping something around the magnet Making a Christmas fridge magnet. Moderate: Show surprise or interest when objects are attracted using magnets. Learning that magnets can push or pull objects on which they act. Playing with magnetic letters and numerals. Using magnets to sort materials in a junk box into those that are magnetic and those that are not	cutting some worm shapes out of tissue paper. Use the charged balloon to make the worms dance. Mild: Demonstrating static electricity by experiencing a tingling sensation when cleaning television computer screen. What else can static electricity do? Using a balloon rubbed off their jumper/hair. Using the balloon to raise their hair. Experiencing crackling noise when taking off a jumper Moderate: Showing an interest in a variety of electrical equipment aimed at sensory exploration. Initiating operation of equipment in order to gain sensory feedback and join in to control events Using a pincer grip to control a switch to give sensory feedback and anticipate results. Attending to experiences of the senses of in a focussed way. Reacting to sensory experiences.
J	Winter-	Strand: Energy and Forces	
A	hot and cold	Strand units: Heat	Strand units: Heat
N U A R Y		Recognise the difference between hot and cold identify ways of keeping objects and substances warm and cold (Heat and our clothes) General: Discuss and compare suitable and unsuitable clothing for cold weather. Predict and identify how we feel in cold conditions wearing both suitable and unsuitable clothing. Experience group outside in the cold, while recording the differences in suitability for difference clothing and how we are feeling.	Become aware of different sources of heat, compare temperatures in different places in the classroom, school and environment (What Heats Us?) General: Nature walk – designing and creating a checklist of what materials and clothing are needed when going on a walk in winter in order to keep warm. Checklist is to be used before leaving for the walk. A thermometer is to be brought on walk and used to measure the temperature in different areas (field, shade, classroom, etc.) These are to be recorded and the differences to be observed and discussed.
		Mild:	Mild:



	Indicate understanding of importance of keeping objects and substances hot and cold. Identify the differences in weather and what makes a day warm and cold. How do we keep warm? Discussing what clothes help heat us up when we're cold. Compare what clothes are suitable and which are not suitable for cold weather, identifying which clothes are worn on sunny and cold days, and how they differ. Experience group outside in the cold, while wearing the discussed materials and clothing needed.	Moderate: Identifying further sources of heat and identifying ways in which homes and buildings are heated. Identifying sources of heat when asked and experiencing heat coming from a classroom heater, cooker, hairdryer (note safety aspects). Nature walk - Dressing up warmly to go on a nature trail in the winter.
	Moderate: Have attention drawn to changes in weather temperature and recognise that clothes keep us warm and cosy. Experience the cooling effects of a fan, heating effect of hairdryer. How is this related to the weather? Recognise that it is warm when the sun shines and cold when there is wind and snow.	
	Linkage/Integration:	Linkage/Integration: Science – Living Things
Weather	Strand: Energy and Forces	
	Strand units: Light Explore simple properties of light and observe colours in the environment (Light and dark – inside and out (the sun)	Strand units: Light Sort objects into sets according to colour and discuss differences between day and night, light and shade (Daytime and Night-time)
	General: Recording the various types of light observed indoors and outdoors. Design a chart to demonstrate the different light sources found. Animal shadows game - Making animal shapes using hands and shadows from the light. Are the shapes clearer indoors or outdoors? Why? Mild: Exploring a range of types of light, both indoors and outdoors. Playing	General: Experimenting in a dark room (sensory room) and describing what we can/can't see. Realising that we cannot see in the dark but that some animals can, for example a cat, an owl. Constructing a chart to illustrate the different activities we do during daytime and night-time. Listen to stories or rhymes about light and dark and night and day
	with the light and demonstrating an understanding of simple properties of light.	Mild: Distinguishing between colours and matching them (different shades) Listen to stories or rhymes about light and dark and night and day.



		Exploring different light sources and light-changing materials that create different effects (reflective, fluorescent, translucent paper or materials) Exploring dark and bright colours and become aware of different shades of colour. Moderate: Looking for different sources of light in the classroom/school and outside. Where is the Sun? Covering and uncovering his/her eyes, try on sunglasses and noting the difference. Showing interest in the colour of plants, animals or materials Experience darkness in a darkened or multi-sensory room, searching for people and objects in the dark, and observe as the light is gradually increased.	Daytime and night-time activities - Showing understanding that we sleep during the night when it is dark and go to school during the day when it is bright. What other things do we do during this time? Moderate: Matching colours in the environment and find objects to place on, for example, "Our yellow table". Sorting objects by colour into sets of two. Experience a range of visual contrasts: brightness and darkness (Day and night). Listen to stories or rhymes about light and dark and night and day.
		Linkage/Integration: Numeracy/Science – taking and recording data	Linkage/Integration:
F I	Love	Strand: Energy and Forces	
Е		Strand units: Sound	Strand units: Sound
B R U A R		Explore simple properties of sound and recognise and identify a variety of sounds in the environment (We Love Sound group – find the sound game, instruments and guess the person from the voice recording)	Identify and differentiate between high and low sounds, loud and soft sounds. Explore ways of making different sounds, using a variety of materials. (Let's make sounds – Making instruments, exploring high/low/loud soft, making story sound effects and making a string phone)
		General: Listening to a variety of sound sources, describing the sounds and classifying them into sound families. Have opportunity to participate in activities that encourage sound discrimination and identification of the sound source. Keep very quiet and identify in his/her immediate environment a variety of sound sources. Listen to a tape of familiar voices, distinguishing who the voice belongs to. Mild: Using a wide range of familiar and unfamiliar musical instruments to explore simple properties of sound. Keep very quiet and identify in his/her immediate environment a variety of sound sources.	General: Making a simple telephone using tins and string/wire, experimenting to find the best way to operate the phone to get the clearest sound possible. Mild: Begin to control the sounds he/she makes, making high and low sounds using own body and investigate how changes in materials, volume and beaters affect the sound produced. Make sound effects to accompany a poem, story or song by controlling the sounds themselves.



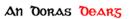
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	Listen to a tape of familiar voices. Moderate: Respond to a range of sounds, locating the source of the sound and experiencing contrasts of silence and sound. Feel vibrations when instruments are played and use instruments to explore simple properties of sound. Explore different sound-making sources. Have opportunities to explore a wide range of familiar and unfamiliar musical instruments. Keep very quiet and identify in his/her immediate environment a variety of sound sources. Listen to a tape of familiar voices.	Moderate: Make loud and soft sounds using objects - Play tambourine, drum, shaker and hammer pegs, bang bricks on table. Begin to control the sounds he/she makes by copying modelled sounds and experience a range of auditory contrasts.
Animals	Linkage/Integration: Music Strand: Living Things	Linkage/Integration: Music
Allillais	Strand units: Plants and Animals	Strand units: Plant and Animals
	Observe and explore a wide range of living things (Minibeast hunt)	Observe and explore a wide range of living things and handle living things appropriately with guidance (Nature walk and garden centre)
	General: Design and make a checklist of common minibeasts, small animals and plants that can be found within the school environment (garden and yard). Become aware of common plants and animals in the environment by looking, touching, smelling, and tasting (where appropriate). Observe footprints or droppings left by a variety of animals; take note of insects that are attracted to a particular plant; identify the birds that visit the bird-table. Observe a wider variety of animals, wherever possible in their natural habitat. Mild: Using the checklist to independently find as many of the minibeasts, animals and plants as possible. Become aware of common plants and animals in the environment by	General: Research what is needed to grow a simple herb garden. Design and make a shopping checklist list of items needed for this. Research an appropriate route to the garden centre (one in Monkstown) that passes areas with trees (for nature walk). Observe common insects and mini-beasts of habitats such as ponds, trees, hedges, grass, rocks, soil. Complete the shopping list and purchase the required materials to construct a herb garden. Mild: Follow map to the garden centre, observing and recording plants and animals encountered along the way. Complete the shopping list and purchase the required materials to construct a herb garden.



		Observe footprints or droppings left by a variety of animals; take note of insects that are attracted to a particular plant; identify the birds that visit the bird-table. Observe a wider variety of animals, wherever possible in their natural habitat. Moderate: Become aware of common plants and animals in the environment by looking, touching, smelling, and tasting (where appropriate). Observe footprints or droppings left by a variety of animals; take note of insects that are attracted to a particular plant; identify the birds that visit the bird-table. Observe a wider variety of animals, wherever possible in their natural habitat.	Observe common insects and mini-beasts of habitats such as ponds, trees, hedges, grass, rocks, soil. Moderate: Have opportunities to go on field trips to local garden centres, forests (Monkstown Garden centre) Observe common insects and mini-beasts of habitats such as ponds, trees, hedges, grass, rocks, soil. Show response of pleasure, interest or anxiety in the presence of animals. In the garden centre, identify, by touch or other means, some parts of plants.
		Linkage/Integration:	Linkage/Integration: Buying items for next activity – Grow a garden
M	Spring	Strand: Living Things	Linkage/integration. Buying items for next activity – Grow a garden
A	Spring	Strand units: Plants and Animals	Strand units: Plants and Animals
C H		Recognise and identify external parts of plants and animals and observe growth and change in some living things, appreciating that living things have essential needs for growth (Planting Plants – Growing our own flowers)	Handle living things appropriately with guidance and recognise and identify external parts of plants and animals, appreciating that living things have essential needs for growth (Growing a herb garden)
		General: Research how to care for a plant. Recognise that plants need water to grow. Explore conditions for growth of bulbs and seeds. Design a "My Plant Needs" Visual and a checklist of what is required to plant seeds/plants. Fill half of plant pot with soil. Sprinkle seeds into soil. Put plant into soil. Put more soil over seeds/in with the plant. Use a watering can dampen the soil. Compare the pots with seeds vs those with plants, labelling the changes and parts of the plant. Read through the "My Plant Needs" visual and place plant pots by the window. Fill in sheet with missing labels for plant parts.	General: Participate in a project to grow a herb garden. Research and design a simple step by step task analysis on constructing a basic herb garden. Design a herb garden set of rules and responsibilities – i.e. watering, etc. Measure soil to be placed in pots. Plants the seeds/plants in the soil and then measure water to water them. Mild: Participate in a project to grow a herb garden Gather materials required for planting – spade, trowel, soil, gloves, watering can, seeds, plants, pots, etc. Organise the materials and give to each child/adult.





	Wild: Using the checklist, gather materials for planting flowers and seeds (pots, soil, gloves, water, etc.) Fill half of plant pot with soil. Sprinkle seeds into soil. Put plant into soil. Put more soil over seeds/in with the plant. Use a watering can dampen the soil. Compare the pots with seeds vs those with plants, labelling the changes and parts of the plant. Read through the "My Plant Needs" visual and place plant pots by the window. Moderate: Fill half of plant pot with soil. Sprinkle seeds into soil. Put plant into soil. Put more soil over seeds/in with the plant. Use a watering can dampen the soil. Compare the pots with seeds vs those with plants, labelling the changes and parts of the plant (Recognise that seeds grow into flowering plants). Read through the "My Plant Needs" visual and place plant pots by the window. (Become aware that plants need water and animals need food and water and recognise that plants also need light). Observe life cycle of plants and recognise whether they are living or dead. Recognise that plants need water to grow. Explore conditions for growth of bulbs and seeds.	Moderate: Participate in a project to grow a herb garden. Help with plant care, such as watering. Identify, by touch or other means, some parts of plants. Be aware of the smell, texture and appearance of herbs and other plants.
	Linkage/Integration:	Linkage/Integration: Science – previous lesson on garden centre visit. SPHE/Geography – Environmental Awareness & Care
Mothers Day	Strand: Environmental Awareness and Care	
6.5	Strand units: Environmental Awareness and Care	Strand units: Environmental Awareness and Care
St Patrick's Day	Differentiated activities: Keep Our Class Space Nice (observe, identify and appreciate the natural and human features of the local	Differentiated activities: Our Rubbish (become aware of ways in which the environment can be polluted or harmed)
	environment)	General:
	General:	What's Rubbish? – Food Preparation. During baking or other food prep
	Identify positive aspects of natural and built environments through	activity, recognising that there are waste products as a result; put egg
	observation, discussion and recording: colours, textures and shapes in materials/buildings/walls, expressing views on features he/she finds	shells/vegetable peelings into a special bin for the compost heap.



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		attractive or unattractive. What can we do to make the environment	During transitions around the school environment, become aware of		
		even nicer?	litter, pollution and vandalism; identify the types of litter around the		
		Assist in keeping my space clean and tidy: contributing to and	school and the activities that created them.		
		experiencing an attractive, welcoming, colourful, clean classroom.	Mild:		
		He/she will help clean up after groups and snack-times, attend to new	What's Rubbish? - Look for evidence of harm caused to the school		
		artwork on walls, care for new flowers indoors or outdoors.	environment: litter in yard, broken furniture, etc. Recognising that		
		Mild:	broken things that cannot be fixed become waste materials: throw		
		Observe, identify and discuss attractive elements of physical, natural	broken plates and cups in the bin, become aware that small rubbish bins		
		and human features: colours and features of the playground, colours of	are emptied into larger containers stored in the school grounds.		
		flowers and trees in the school grounds/park during the different	Moderate:		
		seasons, water features in the local environment.	What's Rubbish? – Matching activity, placing rubbish in the bin and		
		Assist in keeping my space clean and tidy: contributing to and	organising items for keeping. Identifying common waste products: know		
		experiencing an attractive, welcoming, colourful, clean classroom.	that sweet/crisp wrappers and empty juice cartons are rubbish. Know		
		He/she will help clean up after groups and snack-times, attend to new	that rubbish has to be disposed of in an appropriate way: put used		
		artwork on walls, care for new flowers indoors or outdoors.	tissues into a bin in the classroom.		
		Moderate:			
		Keeping my space clean and tidy: contributing to and experiencing an			
		attractive, welcoming, colourful, clean classroom. He/she will help clean			
		up after groups and snack-times, attend to new artwork on walls, care			
		for new flowers indoors or outdoors.			
		Linkage/Integration: Geography	Linkage/Integration: Geography		
A	Easter	Strand: Environmental Awareness and Care			
R		Strand units: Environmental Awareness and Care	Strand units: Environmental Awareness and Care		
1		Differentiated activities: Caring for the School (identify, discuss and	Differentiated activities How To Care For the Environment (identify and		
L		implement simple strategies for improving and enhancing the school	help to implement simple strategies for protecting, conserving and		
		environment)	caring for the		
		General:	Environment)		
		Through group activity, develop a sense of responsibility for taking care	General:		
		of and enhancing the school environment: hanging works of art on the	Participate in activities that contribute to and protect the environment:		
		class walls, keeping our corridors clean, ensuring the toilets are flushed	- collecting rainwater for watering the school garden		
		and no water on floor, participating in the planting of trees and flowers	- collecting of papers, aluminium cans or other materials for recycling		
		in the school grounds, setting stones in the garden to create habitats	from each classroom		
		(building and maintain a bug hotel).	- identifying simple things we can do for the environment at school and		
		Mild:	at home: turning water off when brushing teeth, turning lights off when		
		Through group activity, begin to develop a sense of responsibility for	leaving the classroom, etc		
		taking care of and enhancing the school environment: hanging works of	'Things <u>WE</u> can do together'		
		art on the class walls, keeping our corridors clean, ensuring the toilets	Mild:		



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	are flushed and no water on floor, participating in the planting of trees and flowers in the school grounds, setting stones in the garden to create habitats (building and maintain a bug hotel). Moderate: Begin to develop an awareness of the importance of taking care of and enhancing the school environment: watering plants, changing water in vases of flowers, wiping down tables, sweeping the floor, picking up litter.	'Things <u>WF</u> can do together' - caring for one's own property and that of others - keeping classroom, school and play spaces clean and tidy, participating in a rota for tidying the area outside his/her classroom - turning off the tap to save water - collecting paper or cans for recycling - participating in a project to enhance the school environment: planting bulbs, sunflowers, trees etc caring for a living thing in the classroom — a plant, caterpillars <u>Moderate:</u> 'Things that <u>I</u> can do' - caring for clothes, toys and other possessions - tidying the classroom by putting objects in appropriate storage boxes - disposing of litter appropriately: throwing empty wrappers and tissues away.
	Linkage/Integration: SPHE/Geography – Environmental Awareness &	Linkage/Integration: SPHE/Geography – Environmental Awareness &
Air and Water	Care Strand: Living Things	Care
7.111 4114 114161	Strand units: Plants and Animals	Strand units: Plants and Animals
	Observe and explore a wide range of living things and become aware of animals and plants of other environments (Beach Trip)	Observe and explore a wide range of living things and become aware of animals and plants of other environments, sorting and grouping living things into sets (Zoo trip)
	General: Experience and anticipate trips into the wider environment: beach. Observe common insects and mini-beasts of habitats such as seashore and a wider variety of animals, wherever possible in their natural habitat Show response of pleasure, interest or anxiety in the presence of animals. Keep a written/pictorial record of the various animals and plants encountered in the different environments – school and beach. Mild: Experience and anticipate trips into the wider environment: beach. Observe common insects and mini-beasts of habitats such as seashore and a wider variety of animals, wherever possible in their natural habitat	General: Experience and anticipate trips into the wider environment: the zoo. Research the animals in Dublin zoo, noting how they are sorted and grouped by area. What other ways might the animals be grouped and sorted? Keep a written/pictorial record of the various animals and plants encountered in the different environments. Compare the animals/plants found at the beach last year to those that are found in the zoo. Are there any animals found in both environments?



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		Show response of pleasure, interest or anxiety in the presence of	Mild:	
		animals.	Experience and anticipate trips into the wider environment: the zoo.	
		Using a camera or iPad, document the trip and the beach environment.	Document the various animals by taking pictures. Sort these animals	
			according to certain characteristics – size, species, colour, etc.	
		Moderate:		
		Experience and anticipate trips into the wider environment: beach.	Moderate:	
		Observe common insects and mini-beasts of habitats such as seashore	Experience and anticipate trips into the wider environment: zoo.	
		and a wider variety of animals, wherever possible in their natural habitat	Observe a wider variety of animals, wherever possible.	
		Show response of pleasure, interest or anxiety in the presence of	Show response of pleasure, interest or anxiety in the presence of	
		animals.	animals	
		Develop an awareness by listening to stories of plants and animals from	Develop an awareness by listening to stories, watching nature	
		other environments (by the seaside).	programmes of plants and animals from other environments (the zoo).	
		Recognise that some animals and plants can be found in places beyond	Recognise that some animals and plants can be found in places beyond	
		their immediate environment.	their immediate environment.	
		Linkage/Integration: Geography (beach trip)	Linkage/Integration:	
M	Outdoors	Strand: Materials		
A		Strand units: Materials	Strand units: Materials	
Υ		Observe and investigate a range of familiar materials in the immediate	Group materials according to certain criteria. Investigate materials for	
		environment. Describe and compare materials, noting the difference in	different properties. Recognise that the shape of some materials can	
		colour, shape and texture. Know about some everyday uses of	be changed	
		common materials.		
		(Material Exploration)	General:	
			Investigate materials to discover their properties: roughness, ability to	
		General:	float, shape, perishable/frozen.	
		Describe familiar and unfamiliar objects according to simple properties:	Describe the simple properties of familiar materials: compare objects as	
		size, shape, texture.	being rough or smooth, hot or cold, discriminate between food and non-	
		Engage in sorting and matching activities: make a set of soft/bendy/	edible substances.	
		hard objects, participate in a feely-bag game or a 'feely walk'.	Identify, by verbal or non-verbal means, a wide variety of foods.	
		Begin to distinguish between natural and manufactured materials:	Distinguish between raw and cooked food: know some foods are usually	
		examine fabrics in clothes shops: cotton, plastic, leather jackets.	cooked before being eaten, give examples of foods that are prepared by	
			baking/cooking.	
		Mild:	Participate in a class project on collage, exploring different themes: early	
		Explore the properties of a range of natural materials (sand, water,	work will concentrate on colour/texture, later work might include a	
		leaves, bark, shells, stones, feathers): be aware of the different colours,	'metallic' collage.	
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		textures, shapes and smells, and indicate preferred materials.		
		textures, shapes and smells, and indicate preferred materials.	Mild:	



Moderate: Using all of the senses to explore and investigate a wide variety of objects and materials (and their properties) during free play: roll and stretch dough, splash and pour water, tear and scrunch paper. Handle and use basic tools and equipment during the exploration of materials: use paint brushes and paint values a plastic hammer to strike pegs on a pegboard. Explore a variety of natural and manufactured materials in context: use touch and smell to explore water, wood, textiles, paper, food, plastic, metal, rock. Identify some common materials by naming or pointing to them: paper, stone, sand, wood. Linkage/Integration: Art – using different materials to create Holidays and Summer The strand units: Heating and Cooling Explore the effects of water on a variety of materials, and observe/describe materials when they are wet and when they are when soaked in water: collect different types of paper, watch closely when paper soaks up water, predict which paper will be strongest, which will tear or disintegrate. Experiment with papier mâché. Suggest materials when paper and plastic carrier bags: discuss which of the bags would be best for carrying wet swimming gear. work will concentrate on colour/texture, later work might include a 'metallic' collage. Moderate: Communicate about an object according to one of its properties: giver choice indicate a soft/small/red object. Participate in a class project an collage, exploring different themes: ea work will concentrate on colour/fexture, later work might include a 'metallic' collage. Invaledate: Communicate about an object according to one of its properties: giver choice indicate a soft/small/red object. Participate in a class project according to one of its properties: giver choice indicate a soft/small/red object. Participate in a class project on collage, exploring different themes: ea work will concentrate on colour/fexture, later work might include a 'metallic' collage. Communicate about an object according to ene different types of paper,				
Holidays and Summer Strand: Materials and Change Strand units: Heating and Cooling Explore the effects of water on a variety of materials, and observe/describe materials when they are wet and when they are dry, identifying some materials that are waterproof General: Have experience of the planning process in testing the strength of paper when soaked in water: collect different types of paper, watch closely when paper soaks up water, predict which paper will be strongest, which will tear or disintegrate. Experiment with papier mâché. Suggest materials or clothes suitable for rainy days. Make a class collection of paper and plastic carrier bags: discuss which of the bags would be best for carrying wet swimming gear. Mild: Strand units: Heating and Cooling Explore the effects of heating and cooling on everyday objects and materials while beginning to investigate how materials may be changed by mixing. Examine the changes that take place in materials when physical forces are applied. General: Use a hairdryer to dry hair. Take ice-cubes from the freezer to cool drinks. Actively and safely assist in cooking and baking food. Observe and anticipate the way food changes when it is cooked or baked: the effect of heat on dough, cakes or buns rising, permanent changes (baking bread in an oven). Make and flavour ice-cream in a cookery class. Mild:			direction: mix materials, such as sand and water, water and flour, jelly and water. Moderate: Using all of the senses to explore and investigate a wide variety of objects and materials (and their properties) during free play: roll and stretch dough, splash and pour water, tear and scrunch paper. Handle and use basic tools and equipment during the exploration of materials: use paint brushes and paint, use a plastic hammer to strike pegs on a pegboard. Explore a variety of natural and manufactured materials in context: use touch and smell to explore water, wood, textiles, paper, food, plastic, metal, rock. Identify some common materials by naming or pointing to them: paper, stone, sand, wood.	for one difference, such as colour, size, texture, and smell. Participate in a class project on collage, exploring different themes: early work will concentrate on colour/texture, later work might include a 'metallic' collage. Moderate: Communicate about an object according to one of its properties: given a choice indicate a soft/small/red object. Participate in a class project on collage, exploring different themes: early work will concentrate on colour/texture, later work might include a 'metallic' collage.
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			trie bags would be best for carrying wet swimming gear.	i wake and flavour ice-cream in a cookery class.
			Mild:	Mild:
			Mix materials with water: salt, coffee, powder paint, sand, marbles,	Explore ways in which liquids and solids may be kept hot or cold: the
				effect of wrapping or covering, using different materials, such as paper,
	1		Choose to wear a waterproof jacket on a rainy day.	fabrics, foil, using flasks and coolers.



The Red Door School

Linkage/Integration:	Linkage/Integration:
boots, hat.	hammered, twisted, stretched: Play-doh, Plasticine.
Identify the clothes he/she wears on a rainy day: raincoat, umbrella,	Explore how some materials can be squashed, bent, squeezed,
sandcastles.	mix the ingredients for a cake.
other cereals. Mix water with soil or sand to make mud pies or	Mix paints to make new colours, mix water and sugar/water and salt,
Observe the effect of pouring milk: on corn flakes, Rice Krispies and	water, pop-corn, toffee, syrup change when heated/cooled.
materials.	Respond with interest to the ways in which ice-cream, butter, chocolate,
to see if they float or sink, feel the difference between wet and dry	Watch the effect of the sun's heat on his/her ice-pop.
with interest when materials are seen to change, drop objects in water	
· · · · · · · · · · · · · · · · · · ·	Moderate:
Observe and experience the way materials change when wet: respond	and coming
Moderate:	Test, under supervision, the effects of heating and cooling on water.
	melted in the microwave.
Experiment with papier mâché.	Know that an ice-cream will melt if left near heat, that chocolate can be