Cycle A	EYFS		Year 1 & 2		Yea	ar 3 & 4		Year 5 & 6		
					Scientific knowledge and concept					
Autumn 1	Express Yourself N/A		Telling Tales  Plants Identify common plants (Yr. 1) Describe structure of plants (Yr. 1) Observe seeds and bulbs (Yr. 2) Describe how plants need water, light, heat (Yr. 2)	Branch Grow Growing Living Alive Dead Healthy Weed Seedling Seed Bulb Weed Germinate Germination Reproduce Survival Nutrition	Incredible Inventions  Famous scientists Investigations based on the work of famous scientists Focus on a famous scientist each week Investigate inventions that changed human history Look at ground break discoveries. Recreate certain scientific experiments Ensure focus on one black inventor that has created sor like Garret Morgan (the gas mask and red stop light)  DIVERSITY ADDITION – Inventors form differing backgro has created something we cannot live without. E.g. Saraboard.	mething we cannot live without ounds – focus on an inventor who		Planet Earth Living Things and their Habitats Life cycles (Yr.5) Process of reproduction in plants and animals (Yr. 5) -Classification based on characteristics and give reasons (Yr. 6) Detailed labelling of plants Written report into how plants reproduce Study of various animal life cycles Create classification key  DIVERSITY ADDITION - Plants/animals - diverse environments, not just UK	sexual, asexual Prehistoric Stigma Stamen organism micro-organism fungus mushrooms classification keys	
					w	orking Scientifically N	C Y1-Y6			
			Asking simple questions and recognising that they can be answered in different ways (KS1)     observing closely, using simple equipment (KS1)     identifying and classifying (KS1)     using their observations and ideas to suggest answers to questions (KS1)		reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (LKS2)     asking relevant questions and using different types of scientific enquiries to answer them (LKS2)     setting up simple practical enquiries, comparative and fair test (LKS2     using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (LKS2)     making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers (LKS2)     recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables (LKS2)     using straightforward scientific evidence to answer questions or to support their findings (LKS2)			<ul> <li>taking repeat readings when appropriate (UKS2)</li> <li>recording data and results of increasing complexity using scientific diagrams and labels, cleeps, tables, scatter graphs, bar and line graphs (UKS2)</li> </ul>		
					Scientific knowledge and concept	tual understanding NO	<u> </u>			
Autumn 2	Whizz, Bang, Colour Light  Exploring light sources Shadows  COEL: Engage in open-ended activity: Playing & Exploring  Mixing Mixing and changing colours  ELG- Understanding the word: Understanding some important processes and changes in the natural world around them, including the seasons and changing states of matter.	Light Dark Shadow Block Changing Mixing	Dark Shadow Block Changing Mixing	Arctic Explorers  Everyday Materials  Describing physical properties (Yr. 1)  Focus on describing the physical properties of each material and their uses.  Investigate materials for cold weather  Animals, including humans  - identify, name and describe variety of common animals including mammals (Yr. 1)  - basic needs of animals, including humans (Yr. 2)  Name animals by their description and vice versa  Construct a how to care for an animal guide  Organise visits from a Vet of Dog Trusts (the latter will bring a dog into school and talk about how to care for it)	Materials Natural Man-made Property Hard, firm, smooth, see- through Manufactured Magnetic  Names of animals survival water food Air	ROCK N' KOII  Rocks and Soils  Compare rocks based on physical properties (Yr. 3)  Describe how fossils are formed (Yr. 3)  Recognise soils are made from rocks and organic matter. (Yr. 3)  Use different colour jelly to form layers on top of an object to show how fossils are formed.  Plaster of Paris fossil excavation  Compare different soil types  Generate a table that compare different rocks	absorb water marble chalk granite sandstone slate sandy soil clay soil chalky soil peat	rock stone pebble boulder soil fossil grains crystals hard/ soft texture	Victorians  Electricity  Link voltage cells in a circuit to bulb brightness/buzzer volume (Yr. 6)  Function of components (Yr. 6)  Use correct symbols in circuit diagrams (Yr.6)  Make a wired buzzer game  Investigate the use of batteries in a circuit  Use a range of components in circuit and label them	circuit diagram circuit symbol positive/ negative terminal connection loose connection short circuit voltage current resistance
					Working Scientifically NC Y1-Y6					
			asking simple questions and recognising the answered in different ways (KS1)     observing closely, using simple equipment of performing simple tests (KS1)     gathering and recording data to help in ans Animals, including humans     identifying and classifying (KS1)     using their observations and ideas to sugge questions (KS1)	(KS1) wering questions (KS1	using straightforward scientific evidence to     recording findings using simple scientific la tables (LKS2)     reporting on findings from enquiries, included fresults and conclusions (LKS2)	nguage, drawings, labelled diagrar	ns, keys, bar charts, and	planning different types of scientific enquiries to answer questic controlling variables where necessary (UKS2)     taking measurements, using a range of scientific equipment, wit taking repeat readings when appropriate (UKS2)     recording data and results of increasing complexity using scientikeys, tables, scatter graphs, bar and line graphs (UKS2)     using test results to make predictions to set up further compara	h increasing accuracy and price diagrams and labels, cla	
					Scientific knowledge and concept	tual understanding NO	2			
Spring 1	Passport to the world		Fire Fire Uses of everyday Materials Identify and compare suitability of materials (Yr. 2) Look at materials for housing construction, which is the most suitable Introduce the concept of variables	Waterproof Durable Magnetic Brittle Shiny Hard Smooth Squashy Flammable	4)	degrees Ceisius	solid liquid gas air oxygen powder grain/ granular crystals ice/ water/ steam Condensation Evaporation	Animals Including Humans Changes as humans get old (Yr. 5) Circulatory system (Yr.6) Impact of diet, exercise, drugs and lifestyle on body functions (Yr.6) How nutrients are transported (Yr. 6) Heart dissection Full written report of the dissection Create training circuits to see how exercise impacts the body Evolution and Inheritance Recognise that living things change over time – fossils provide information (Y6) Living thigs produce offspring, but they vary from parents (Yr. 6) How animals and plants adapt (Yr.6) Study Charles Darwin and his discoveries Analyse the process of evolution What does the future hold for evolution?	circulatory system heart blood blood vessels pumps oxygen carbon dioxide Lungs evolution suited/ suitable adapted/ adaptation offspring characteristics vary/ variation inherit/ inheritance	

			Hose of avanuary Materials		States of Matter (Including the water cycle)			Animals Including Humans		
			identifying and classifying (KS1)     using their observations and ideas to sugger questions (KS1)     observing closely, using simple equipment (performing simple tests (KS1)		reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (LKS2)     setting up simple practical enquiries, comparative and fair test (LKS2     making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers (LKS2)					
				Scientific knowledge and concep	tual understanding No	_				
Spring 2	Favourite Stories Exploring the outdoors, change, growth Making potions, looking at cause and effect. (F2) Exploring and observing growth and the changes that occur during spring in the natural world. Measuring plants and drawing observational pictures of natural objects.  ELG- Understanding the world: Exploring the natural world around them, making		Where we live  Seasonal Changes  Observe changes across all four seasons (Yr. 1)  Observe weather associated with seasons (Yr. 1)  Create rain catches to record rainfall over a certain length of time.  Keep a weather diary (added to monthly)  Set up a weather station (hardware permitting)	Spring Summer Autumn Winter Types of weather Observe	Tomb Raiders  Animals including humans  Nutrition (Yr. 3)  Skeletons and muscles (Yr. 3)  Use x-rays to view bones  Use skeleton model for detailed viewing  Organise a visit from a nutritionist  Create a balanced meal and discuss what this means  Look at the adverse effects of poor nutrition	skeletons – support, protection skulls – brain ribs – heart, lungs joint muscles- movement, pull, contract relax	vitamins minerals fat protein Carbohydrates Fibre	South America Animals Including Humans: SRE Focus Changes as humans get old (Yr. 5)	Vocab on PSHE documentation	
	observations and drawing pictures of animals and plants.				<u>w</u>	orking Scientifically N	C Y1-Y6			
	ELG- Understanding the world: Understands some important processes and changes in the natural world around them, including the seasons and changing states of matter.		Seasonal Changes  observing closely, using simple equipment (KS1) performing simple tests (KS1) using their observations and ideas to suggest answers to questions (KS1)		Animals including humans  using straightforward scientific evidence to answer questions or to support their findings (LKS2)			Animals Including Humans:  SRE Focus  identifying scientific evidence that has been used to support or refute ideas or arguments (UKS2)		
					Scientific knowledge and concep	tual understanding No	2			
Summer 1	states of matter.  ELG- Understanding the world: Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.  COEL-Engage in open-ended activity: Playing & Exploring		Inside Out  Plants Identify common plants (Yr. 1) Describe structure of plants (Yr. 1) Observe seeds and bulbs (Yr. 2) Describe how plants need water, light, heat (Yr. 2) Dissect a plant and label Go on a plant hunt Cut bulbs up and investigate Set seeds and observe Create a plant survival guide. Grow beans in bags Use edible playground (create a class veg patch and give	Grow Growing Living Alive Dead Healthy Weed Seedling Seed Bulb Weed Germinate Germination Reproduce Survival e Nutrition  Male Female Features Variation Origin	Plants Functions of each part (Yr. 3) Requirements for life (Yr. 3) Water transportation (Yr. 3) Life cycle (Yr. 3) Use edible playground (create a class veg patch and give roles to pupils to look after plants) Plant dissection Look at how water is transported in a plant (Carnation/celery experiment with food colouring) Growing conditions experiment  Forces and magnets Compare moving on surfaces (Yr. 3) Forces need contact (Yr. 3) Magnets (repel and attract) (Yr. 3) Investigate magnetism (Yr. 3) Predict if magnets will attract or repel (Yr. 3) Friction experiments – testing different surfaces. Investigate how magnetic and non-magnetic items Pull testing to test the magnetism of a magnet	push pull open Surface attract repel magnetic poles north south metal iron Steel Magnetism	Function Nutrients Fertiliser Pollination Seed formation Seed dispersal Life-cycle Transportation	Journeys Light Light travels in straight lines (Yr. 6) Objects are seen because they reflect or give out light (Yr. 6) We see because light travels from sources to eyes (Yr.6) Shadows (Yr. 6) Create a periscope Study refraction Investigate how shadows change over the course of day, week, month (length of shadows in summer vs winter etc.) Written report of how the human eye works (pupil research)	periscope rainbow filters	
	between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.  COEL-Engage in open-ended activity: Playing & Exploring	Cocoon	Caribbean  Animals, including humans - Identify, name and describe common animals including, mammals (Yr. 1)	Female Features Variation	Compare moving on surfaces (Yr. 3) Forces need contact (Yr. 3) Magnets (repel and attract) (Yr. 3) Investigate magnetism (Yr. 3) Two poles of a magnet (Yr. 3) Predict if magnets will attract or repel (Yr. 3) Friction experiments – testing different surfaces. Investigate how magnetic and non-magnetic items					
Summer 2	between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.  COEL-Engage in open-ended activity: Playing & Exploring  Down at the bottom of the gardon	Cocoon Chrysalis Egg Change Metamorphism	Caribbean  Animals, including humans	Female Features Variation	Compare moving on surfaces (Yr. 3) Forces need contact (Yr. 3) Magnets (repel and attract) (Yr. 3) Investigate magnetism (Yr. 3) Two poles of a magnet (Yr. 3) Predict if magnets will attract or repel (Yr. 3) Friction experiments – testing different surfaces. Investigate how magnetic and non-magnetic items					

**DIVERSITY ADDITION - Butterflies - what** butterflies are indigenous to particular countries? Why? What is it about that habitat?

ELG- Understanding the world: Understands some important processes and changes in the natural world around them, including the seasons and changing states of matter.

ELG- Understanding the world: Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.

identifying and classifying (KS1)

using their observations and ideas to suggest answers to questions (KS1)

DIVERSITY ADDITION - Investigate George Washington Carver – he was a botanist who focus on soil and how things grow.

## Animals, including humans

- asking simple questions and recognising that they can be answered in different ways (KS1)
- observing closely, using simple equipment (KS1)
- performing simple tests (KS1)

making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers (LKS2) Forces and ma

- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (LKS2)
- asking relevant questions and using different types of scientific enquiries to answer them (LKS2)
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers (LKS2)
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and
- using straightforward scientific evidence to answer questions or to support their findings (LKS2)

- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations (UKS2)
- identifying scientific evidence that has been used to support or refute ideas or arguments (UKS2)

Cycle B	EYFS		Year 1 & 2		Year 3	<b>§</b> 4		Year 5 &	6	
Autumn 1	Out and about N/A		Are we there yet?  Everyday Materials  Identify a material (Yr. 1) Comparing and grouping (Yr. 1) Identify and compare a range of materials. Describe the properties of each material Investigate various materials that could be used as a space suit, moon lander, rocket etc.	Materials Natural Man-made Property Hard, firm, smooth, see through Manufactured Magnetic waterproof absorbent	Our Wonderful World Living things and their habitats  Grouping living things (Yr. 4) Classification keys (Yr. 4) Change in environments, dangers to living things (Yr. 4) Create different classification keys. Focus on events where wildlife has been put in danger i.e. Australian w Look at deforestation and the effects on the wildlife		Keys Environment Condition	Space  Earth and Space  Describe movement of earth and other planets (Yr. 5) Describe movement of sun and moo (Yr. 5) Spherical bodies (Yr. 5) Earths rotation to describe day and night (Yr. 5)  DIVERSITY ADDITION - Study of Mary Jackson, Dorothy Vaughn, Katherine Johnso and how they influenced the space race.  Study heliocentric and geocentric models Draw solar system Create a planet fact file Make model planets and arrange in the previous learnt models Scale drawings of the planets on the playground Study of black scientists involved in the Space race.	clocks	Spherical Sphere Names of Celestial b 'dwarf' pla orbit
					Working Scienti	fically NC Y1-Y6				
			Asking simple questions and recognising that the answered in different ways (KS1)     Observing closely, using simple equipment (KS1)     Performing simple tests (KS1)     using their observations and ideas to suggest ans (KS1)     Investigate various materials that could be used as a space suirocket etc.  Best way to repair a astronauts glove.	wers to question:	Living things and their habitats	ariety of ways to help in answ	ering questions (LKS2)	identifying scientific evidence the refute ideas or arguments (UKS).  Comparing old ideas against new ideas (flater).	2)	
			best way to repair a astronauts giove.	Scie	ntific knowledge and conceptual understandi	ng NC				
Autumn 2	Toy Story Circuits Making robots Scrap modelling from disused electrical items Create simple working circuit  ELG- Understanding the world: Understands some important processes and changes in the natural world around them, including the seasons and changing states of matter.  ELG- Understanding the world: Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.	Motor Battery Connect Power	The Workshop  Everyday materials  Distinguish between an object and a material (Yr 1)  Establish what materials certain objects are made from and record findings  Look at photos/or physical parts of objects to establish their material  Look at a material and suggest the most appropriate use.	Natural Man-made Property	The Tudors  Light  Need light to see, dark is absence of light (Yr. 3)  Light is reflected (Yr. 3)  Light from sun is dangerous (Yr. 3)  Shadows (Yr. 3)  Patterns in shadows (size) (Yr. 3)  Draw around an object on the playground and watch how the shadow of the day.  Make kaleidoscopes.  Safety posters  Dark boxes  Make sundials  feely bags	thanges through the course o	Shadow Transparent translucent Opaque Direction Travels Source Reflect Reflection	Forces  Air resistance and water resistance (Yr. 5)  Mechanisms, including levers and pulleys and gears (Yr. 5)  Effect of gravity (Yr. 5)  Parachute experiment Making a boat to investigate buoyancy and water resistance Floating and sinking experiments	moving surface levers pulleys Gears	s fall gravity force air resista water res Friction mechanis
					Working Scienti	fically NC Y1-Y6				
	COEL-Engage in open-ended activity: <i>Playing &amp; Exploring</i>		asking simple questions and recognising that they answered in different ways (KS1)     observing closely, using simple equipment (KS1)     performing simple tests (KS1)     identifying and classifying (KS1)     using their observations and ideas to suggest ans (KS1)     gathering and recording data to help in answering	wers to question:	making systematic and careful observations and, where ap	ntific enquiries to answer ther test (LKS2 for new values, suggest impr propriate, taking accurate me ata loggers (LKS2) gs, labelled diagrams, keys, ba	n (LKS2)  ovements and raise further  asurements using standard units,  or charts, and tables (LKS2)	reporting and presenting findings frocausal relationships and explanation in oral and written forms such as dis     recording data and results of increas diagrams and labels, classification keline graphs (UKS2)     taking measurements, using a range increasing accuracy and precision, tale appropriate (UKS2)	ns of and a degree splays and other sing complexity eys, tables, scati	ee of trust in presentation using scient ter graphs, l uipment, wi
				<u>Scie</u>	ntific knowledge and conceptual understandi	ng NC				
Spring 1	Paws and claws Habitats What animals need, similarities and differences Vets role play  DIVERSITY ADDITION - Habitats – looking at habitats outside of the UK  COEL- Make links and notice patterns in their experience: Creating & Thinking Critically  ELG- Understanding the world: Understands some important processes and changes in the natural world around them, including the seasons and changing states of matter.	Needs Similarities Difference Compare	Dangerous Dinosaurs  Animals, including humans identify and name variety of carnivores, herbivores and omnivores (Yr. 1)  Venn diagram of different dinosaurs and what the eat  Living things and their habitats  How animals obtain food – simple food chains. (Yr. 2)  DIVERSITY ADDITION - Dinosaurs that are found on different continents of the world – are they herbivores, carnivores etc. What does that tell you about that environment etc.  Investigate food chains of different types of animals in different habitats and locations Look at the different diets that animals consume Use 'bait' and night cameras to take photos of animals that	Herbivore Carnivore Omnivore Diet Prey Predator	Africa Animals including humans Digestive system (Yr. 4) Teeth in humans (Yr. 4) Food chains (Yr. 4) Make big teeth models Use digestive system tunic Make differing food chains The journey of food Visit from a dentist	Food groups Starches Cereals Incisor Molar Canine Diet decay	Consumer Producer Organism  oesophagus transports stomach acid enzymes small intestine large intestine	Magic and Mystery Properties and Changes in Materials Compare and Group objects (Yr. 5) Dissolving to form solution (Yr. 5) Separating mixtures (Yr. 5) Uses of everyday materials based on tests (Yr. 5) Reversible and irreversible changes (Yr. 5) Alien soup experiment - separating a mixture using sieving and filtering Burnt toast, cooked egg experiment Getting salt from a solution Make mixtures Testing materials that will rust and ones that will not (focus on hypothesizing)	Mixing Chemical Rusting Residue	Solubility Response Dissolve Solution Solute Separate Separating Filtering Sieving Reversible Irreversibl

	ELG- Understanding the world: Know some		Working Scientifically NC Y1-Y6								
	similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.		Animals, including humans			Animals including humans      asking relevant questions and using different types of scientific enquiries to answer their recording findings using simple scientific language, drawings, labelled diagrams, keys, be identifying differences, similarities or changes related to simple scientific ideas and procusing straightforward scientific evidence to answer questions or to support their finding	Properties and Changes in Materials  I planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary (UKS2)  I taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate (UKS2)  recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs (UKS2)  using test results to make predictions to set up further comparative and fair tests (UKS2)  reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations (UKS2)  identifying scientific evidence that has been used to support or refute ideas or arguments (UKS2)				
					<u>Scie</u>	ntific knowledge and conceptual understanding NC					
Spring 2	Exploring materials  Changing materials e.g. melting ice and chocolate  Dissolving sugar and salt – where has it gone?  Life Cycle – Animals	Changes Melt Heat Compare Solids Liquids Roots Leaves Stem Flower On Under	Into the woods Living things and their habitats compare living, dead and never alive (Yr identify why animals/plants suited to a h identify animals and plants in their habit habitats. Look at various objects that are alive, de Create a habitat for a specific animal/pla Ants nest Birds nests Bug hotels	nabitat (Yr. 2 tat including micro-	Living Not living Dead Micro-habitat habitat	Virtual Reality Electricity Appliances that use electricity (Yr. 4) Series circuits with basic parts (Yr. 4) Complete circuits (will/won't work) Yr. 4) Switches (Yr. 4) Common conductors/insulators (Yr. 4)  DIVERSITY ADDITION - Lewis Latimer — He created a durable filament for light bulbs. The light bulb would not have been possible without him  Making circuits Identifying mistakes in circuits to make it work Design circuits Investigate materials which conduct electricity and those which do not Make reference to Lewis Latimer — black inventor who worked with Thomas Edison	Circuit Series Cell Bulb Buzzer switch Conduct Conductor Insulate Insulator Dim Brightness	Greeks Animals Including Humans: SRE Curriculum Changes as humans get old (Yr. 5)	Vocab on PSHE documentation		
	ELG- Understands some important processes and changes in the natural world around them,					Working Scientifically NC Y1-Y6					
	including the seasons and changing states of matter.  ELG-Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.		observing closely, using sim     identifying and classifying (i     gathering and recording date)  Living things and their habitats     identifying and classifying (i     gathering and recording date)	KS1)	g questions (KS1)	making systematic and careful observations and, where appropriate, taking accurate me using a range of equipment, including thermometers and data loggers (LKS2)     recording findings using simple scientific language, drawings, labelled diagrams, keys, bousing results to draw simple conclusions, make predictions for new values, suggest impropreductions (LKS2)     reporting on findings from enquiries, including oral and written explanations, displays of conclusions (LKS2)	ar charts, and tables (LKS2) ovements and raise further	identifying scientific evidence that has been used to stideas or arguments (UKS2)	upport or refute		
					<u>Scie</u>	ntific knowledge and conceptual understanding NC					
Summer 1	Planting seeds – where the parts of the plant develop Garden walk to identify certain plants Sunflower growing – who can grow the tallest sunflower? Why ahs it grown taller? Etc. ELG- Understanding the world: Understands some important processes and changes in the natural world around them, including the seasons and changing states of matter. ELG- Understanding the world: Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.	Roots Leaves Stem Flower Plant	Roald Dahl Uses of everyday materials Manipulating solids by squashing, squeezing, bending, stretching (Yr. 2) Use various materials and conduct a test to investigate their appropriate use by manipulating them  Mini-beast madness Animals including humans notice that animals grow and have offspring (Yr. 2) Describe the importance of exercise, eating healthy and hygiene (Yr. 2) Compare baby animals and the adult form. Look at the stages of growth. Create fitness circuits Create a 'healthy plate' of food.	squash bending twisting Stretch Manipulate  Variety Diet Exercise Nutrition Growth	Reproduce Offspring  Produce young egg-chick-chicken egg-caterpillar- pupa-butterfly spawn-tadpole- frog lamb-sheep baby-toddler- child-teenager- adult	Community Café  The Romans  Sound  Identify how sounds are made (Yr. 4)  Vibrations travel through a medium (Yr. 4)  Patterns between pitch and sound (Yr. 4)  Patterns between volume and sound (Yr. 4)  Sounds get fainter as distance increase (Yr. 4)  Using tuning forks  Coat hanger experiments (differing lengths of string attached to a coat hanger)  Sounds in water  String and cup telephone  Make rice shakers and investigate variables regarding the amount of rice used to effect the sound that is made (louder/quieter etc.)	Vibrate Travel pitch tune high low volume loud quiet fainter muffle vibrations insulation	Mystic East N/A			
Summer 2	Floating and sinking Making and test own boats (forces) Why do some materials sink and why do some float Water play  ELG- Understanding the world: Understands some important processes and changes in the natural world around them, including the seasons and changing states of matter.	Float Sink Heavier Lighter	Uses of everyday materials	51)	wers to questions	Working Scientifically NC Y1-Y6      using results to draw simple conclusions, make predictions for new values, suggest impropressions (LKS2)     identifying differences, similarities or changes related to simple scientific ideas and processing the suggestion of the suggestion					
	ELG- Understanding the world: Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class.		(KS1)  Animals including humans  gathering and recording dat  asking simple questions and answered in different ways	ta to help in answering	g questions (KS1)	<ul> <li>using straightforward scientific evidence to answer questions or to support their finding</li> <li>setting up simple practical enquiries, comparative and fair tests (LKS2)</li> </ul>	is (LKS2) easurements using standard units,				