Science Year group overview

	Autumn Term 1	<u>Autumn Term 2</u>	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Early Years Year 1	 When I was a baby Name body parts and their purpose Investigation – using the senses Comparing similarities and 	<u> </u>	 rs have access to a range of evelop skills, ask questions a Sorting materials for puppets Sorting materials (floating & sinking) Mixing and changing materials Making shadows 	nd explore the natural work	 Growing - Exploring seeds - Class seed diary -What do plants need to grow? - My results Pond life - Visit pond 	What kind of animals live in rivers?
	differences • Keeping healthy •				 Frog spawn Review investigation Growing/Pond life Grouping plants Alive or not? Review of investigation 	
					 Caring for the environment Walk around school Research in their gardens Review investigation 	
Year 2	 Healthy eating Sorting and classifying materials 	Identifying common plants and trees	 Investigating materials Which materials make the best wheels? 	Using resources available: • Example • Local bee keeper	Is it Living? •Nature detective •Categorisation •Observational drawings	

	 Use of materials on basis of properties Changing the hsapes of materials Exercise 	Labelling drawings of plants and trees	 Which materials are waterproof Test the vehicles 	 Honey tasting Bee life cycle Pollination Make honey biscuits 	•Human impact on the environment. Animal and Human Care •Egg pet •Caring for creatures •Keeping the world healthy •Looking after ourselves Life Stories •Parent and young •Animal and human life stories. Animal Families •How are animals the same? Habitats and Humans •What is a habitat?	
Year 3	I wonder? Lighting up a bulb	Germinating and growing	Pushes and pulls'Magically' make an	How the environment affects	•Human senses •Animal senses •What's in our air? • What is a plant/animal?	Investigating materials
	 Electrical conductors Switches Lighting up a picture Concept map magnets Magnetic materials Static electricity 	 Testing bricks Moving heavy objects 	object move Friction Measuring forces Air resistance	plants & animals - Food that keeps us healthy - Open ended questions - Review investigation	 Is it alive? Intro to ant farm Investigation assessment – What do plants need? Where does the water go? What are roots for? Habitats/Habitats in the school grounds Seed dispersal 	

	Finding out about magnets		 Life cycle of an ant/butterfly Food chains
Year 4	 I wonder? Investigating materials How do we see? Shadows Reflection Challenges using mirrors Sounds are made when objects vibrate Seeing vibrations Feeling vibrations Vibrations from sound sources travel through medium Sound insulation Pitch and loudness Exploring refraction, reflection, colour 	 Dissolving investigation Food value of chocolate bar How does the chocolate become fuel/energy for our bodies? Which sugar dissolves first? Should we continue to eat chocolate as far as our teeth are concerned? Changes occur when materials are heated or cooled* Temperature is a measure of hot and cold Heating solid materials can cause irreversible changes* 	 Concept of living How do our bodies feel after exercise? The heart and pulse Science investigation – how exercise affects our bodies Organs of the body Skin, skeleton and muscles Jigsaw activity Digestive system Sorting food Healthy eating The Brown family Food labels Teeth Tooth decay Dental care Revisit science investigation Quiz
Year 5	 Quiz (part1) Trainee Materials Scientists Key terms Classifying materials 	 Electrical circuits Forces Light Sound 	 Plant search Plant classification Grow your own salad Life cycle of a plant Parts of a plant and functions

	 Problem – sustainable carrier bags Dissolving Separating insolubles Evaporation Recovering sugar Evaporating perfumes Solids, liquids, gases Cornflour slime Gases Keeping it cool Non-reversible changes Big separation problem Quiz (part 1 and 2) 			 Pollination Investigation – germination Seed dispersal The dandelion seed Parachute investigation Food chains Pond visit 	
Year 6	 I wonder? Enough water Investigating evaporation and condensation Water cleaning Position of the Sun Day and night Earth's orbit Moon's orbit Role Play Moon shapes 	Opportunity for discrete Science revision according to need.	 Biography in a Bag We are naturalists Carl Linnaeus – optional The Chimp report Natural selection activity Darwin's finches Telling the story – population graphs Creating something new Plants Animals 		

 Relative sizes of planets Gravity Names of planets Investigating insulation Rocks and soils 	 What do we know about fossils So, why do some creatures no longer exist? Review of Learning Presenting our learning 		
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