



Observing Over Time Comparative & Fair Test Grouping & Classifying Researching

Pattern Seeking

			Cycle A				
	Autumn Ore	Autumn Two	Spring One	Spring Two	Summer One	Summer Two	
Rec & Year I	Seasonal Change (EYFS)	Forces (EYFS)	See, Hear & Feel - Materials Animals (in (YI) (		Animals (incl (E)	uding humans) YFS)	
Scientific	How does	Explore how cars	Which material makes the best		Name and describe plants and		
Enquiry Focus	the natural 'move down world ramps/gutters – change with what happens il		umbrella/ curtains/ gymnasťs leotard etc?		animals they will find in the school grounds.		
	seasons? How does a puddle change over time? How does a snowman change as it melts?	you change the material on the ramp? How does the ramp feel?	How does a charge dur	toy's shadow ing the day?	mam	mals).	
Year 2 & 3	Light (Y3)		Plants –	Plant Growth (Y2)	Animals (including humans) (Y2)	Living Things and Their Habitats (Y2)	
Scientific	Looking for patt	erns in what happens	Observe coloured	water travelling up	Observing	Research into	
Enquiry Focus	to shadows when the light source		plan	s stem.	animals grow	animals' diets to	
, ,	moves or the distance between the light		Labelled Diagrams		over time.	create simple	
	source and the object changes.			-		food chains.	
	Da	awings					





Year 4 & 5	Animals – Teeth, Eating and Digestion (Y4)	Forces. (Y5)	Properties & Changes of Materials (Y5)		Earth and Space (Y5)	Living Things and their Habitats – Life Cycles (Y5)
Scientific Enquiry Focus	Research food chains based on different areas in the world.	Designing and making a variety of parachutes and carrying out fair tests to determine which designs are the most effective. Stopwatches Tables	Investigate dissolving of salt/sugar. Patterns in time taken to dissolve with different temperatures/ different sizes of sugar/ stirring or not stirring. <b>Thermometers / Stopwatches</b>		Group planets based on their size/ atmosphere/ orbit time/ rotational period etc. Modelling proven theories. Labelled scientific diagrams	Grow plants from cuttings and observe butterflies hatching from chrysalis.
Year 6	Electricity	Animals – Exercise, Health and the Circulatory System	Light	Evolution & Inheritance	Living Things and their Habitats	Material Properties – Testing Material Properties
Scientific Enquiry Focus	Does the number of cells affect the brightness of a bulb in the circuit? <b>Data Logger</b>	How does your pulse rate change after different types of exercise? Line Graph	Investigating shadows of objects being the same shape .as the objects.	Research into palaeontologists such as Mary Anning. Look at how Charles Darwin and Alfred Wallace developed their ideas on evolution. Research into the proof of evolution.	Use classification systems and keys to identify some animals and plants in the immediate environment <b>Classification</b> <b>Keys</b>	





Cycle B								
	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two		
Rec & Year 1	Plants (YI)		Humans (YI)		Earth and Space (EYFS)	Living Things & Their Habitats (YI)		
Scientific Enquiry Focus	What do plants r (water, ligh Do plants with bi tall Grouping plants l	reed to grow well t, warmth)? igger seeds grow er? pased on features.	What do people look like? What do we have in common? How do you look like some of your family members? Are taller children faster? Are smaller children stronger?		Research and learn about the role of an astronaut. How is space different to planet Earth?	Sort animals based on where they live. Look for minibeasts and plants in different areas of the school grounds/ local area.		
Year 2 & 3	Uses of Everyday Materials (Y2)	Rocks (Y3)	Animals (Skeletons) (Y3)	Forces and Magnets (Y3)	The Environment (Y3)	Scientists & Inventors (Y3)		
Scientific Enquiry Focus	Identifying and classifying uses of different materials	Testing rocks in relation to porous, density and durability – how do they compare?	Identifying and grouping animals with and without skeletons.	How can we make things move? Exploring patterns in relation pushing and pulling. Does this happen every time? What if?	The children are to research ways in which we can reduce, re-use and recycle based on the information they have learnt.	ENRICH - Explore the work of key scientistic and inventors linked with the year groups curriculum.		





Year 4 & 5	States of Matter & (Y	& The Water Cycle 4)	Electricity (Y4)	Living things and their Habitat - Classifying (Y4)	Sound (Y4)	Animals - Human Life Cycles (Y5)
Scientific Enquiry	ONE - Observe the evaporation of		Investigate which	Using and	Finding patterns	Researching
122002	water from different places in the school linked with temperature (autside on the teacher's desk on		conductors and	guides or keys to	that are made by different	of different mammals.
	the radiator, J <b>Therm</b> a	in the fridge). I <b>meters</b>	insulators.	identify plants and animals.	objects such as saucepan lids	Bar Charts Research
	TWO - Children x . own 'mini world'	are to create their and observe these		Keys	of different sizes or elastic	naturalists e.g. Jane Goodall
	over the course of link their observa	a week - can they tions to stages of			bands of different thicknesses	
	ine writer rycle:				Data Loggers Bar Chart	
Year 6	Electricity	Animals – Exercise, Health and the Circulatory System	Light	Evolution & Inheritance	Living Things and their Habitats	Mini Project – Testing Material Properties
Scientific Enquiry Facus	Does the number of cells affect the brightness of a bulb in the circuit? Data Logger	How does your pulse rate change after different types of exercise? <b>Line Graph</b>	Investigating shadows of objects being the same shape as the objects.	Research into palaeontologists such as Mary Anning. Look at how Charles Darwin and Alfred Wallace developed their	Use classification systems and keys to identify some animals and plants in the immediate environment Classification	Planning and completing a range of tests in order to find the best material suitable for the intended project. What is the most suitable material





		evolution. Research into the	
		proof of evolution.	