	en's Academy Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Do you want to be friends?	Why do squirrels hide their nuts?	Dinosaur planet	Will you read me a story?	Why do ladybirds have spots?	Are we there yet? Wha do you see in summer?
Reception	 Enjoys joining in with family customs and routines Talks about past and present events in their own life and in the lives of family members Knows that other children do not always enjoy the same things, and is sensitive to this Knows about similarities and differences between themselves and others, and among families, communities, cultures and traditions 	 Makes observations of animals and plants and explains why some things occur, and talks about changes (seasons) Enjoys joining in with family customs and routines (Christmas) Talks about past and present events in their own life and in the lives of family members (Christmas) Knows about similarities and differences between themselves and others, and among families, communities, cultures and traditions 	 Makes observations of animals and plants and explains why some things occur and talks about changes (including seasons). Knows about similarities and differences between themselves and others, and among families, communities, cultures and traditions (Lunar new year) 	 Makes observations of animals and plants and explains why some things occur, and talks about changes (seasons) Enjoys joining in with family customs and routines (Easter) Talks about past and present events in their own life and in the lives of family members (Easter) Knows that other children do not always enjoy the same things, and is sensitive to this (Easter) 	 Makes observations of animals and plants and explains why some things occur and talks about changes. Looks closely at similarities, differences, patterns and change in nature. Knows about similarities and differences in relation to places, objects, materials and living things. 	 Makes observations o animals and plants and explains why some things occur, and talks about changes (seasons - Talks about the features of their own immediate environments might vary from one another (seasides from the past)
	Brazil	Paws, Claws and Whiskers	Historical Superheroes	The Enchanted Wood	Our Capital	London's Burning
Year 1	Living things and their habitats Seasonal changes . *look at each season *months of the year *changes between them *similarities and differences. Enquiry Observe how weather/day length change over the seasons.	Animals, including humans *classification of animals *name body parts *naming animals Enquiry Research into the structure of different animals (fish, amphibians, reptiles, birds & mammals).	Healthy me (humans). *senses *body parts <u>Enquiry</u> Do people with bigger feet need bigger gloves?	Living things and their habitats (plants) *name of plants *parts of plants *where plants grow *how plants *what plants need to survive. Enquiry Grouping plants based on features.	Materials (everyday) *man made or natural *comparing materials *properties <u>Enquiry</u>	Materials (everyday) *What materials *Names of material *knowledge of everyda objects (what they are made of). *properties <u>Enquiry</u> Which material makes the best umbrella/ curtains/ gymnast's leotard etc?



Science – Subject Overview

Childr	en's Academy		Science – Subject O			
	Land Ahoy	History Makers	Towers, Tunnels and Turrets	Towers, Tunnels and Turrets /Street Detectives)	Street Detectives	Wriggle and Crawl
	Animals, including humans	Materials (Everyday materials)	Materials (Everyday materials)	Living things and their habitats	Living things and their habitats (plants)	Living Things and Their Habitats
Year 2	- Basic needs - Growth	- Suitability	- Manipulation	 Food Chains Healthy Eating and exercise 	 Seeds and bulbs Needs of plants 	- Living or dead - Habitats
	Enquiry Observing animals grow over time	Enquiry Identifying and classifying uses of different materials.	Enquiry What happens to solids when manipulated? <u>Changing-Shape-</u> Portfolio-2018.10.pdf (wsc.ac.uk) Table	Enquiry Research into animals' diets to create simple food chains.	Enquiry Do plants with bigger seeds grow taller? What do plants need to grow well (water, light, warmth)?	Enquiry Identifying and grouping items.
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Forces and magnets	Animals, including humans	Materials	Living things and their habitats (plants)	Animals, including humans	Light and Sound
	- Friction		- Rocks		- Skeletons	- Light vs dark
	- Magnets	- Food sources	- Soil	- Function	-Food Chains	- Reflection
		- Nutritional needs	- Fossils	- Requirements		- UV protection
	Enquiry			- Water transport	Enquiry	- Shadows
	Cars down a ramp	<u>Enquiry</u>	<u>Enquiry</u>	- Flowers as part of	Identifying and grouping	
Year 3	(change	Research dietary needs	Research how fossils are	lifecycle.	animals with and without	<u>Enquiry</u>
	angle/surface/size of	of humans vs animals.	formed.		skeletons.	Looking for patterns in
	wheels)	Evelorit.		Enquiry Observe coloured water		what happens to
	Rulers/ Tape measures Tables	Explorify	How porous/permeable is soil?	travelling up plants		shadows when the light source moves or the
	Tables		(soil in funnel 500ml	stem		distance between the
	Comparing strengths of		water how much passed	Labelled Diagrams		light source and the
	different magnets.		through in ?? mins?)	, i i i i i i i i i i i i i i i i i i i		object changes.
	0			(see Science Sparks) use		Drawings
			Table	Wilton 601-5580 Icing,		-
			Bar chart	12-Count Gel-Based		



Science – Subject Overview

Year 4Enquiry Finding patterns in the sounds that are made by different objects such as saucepan lids of different tizes or elastic bands of different thicknesses iPad sound meter app Bar Chart- Food chains Enquiry Research into teeth of different animals. Labelled scientific diagramsEnquiry Group together solids, liquids and gases. Investigate what temperature liquids freeze at. What happens to them?Enquiry Observe the evaporation of water from different places in the school linked with temperature liquids. freeze at. What happens to them?Enquiry Using and making simple guides or keys to explore and animalsEnquiry unvestigate what temperature liquids freeze at. What happens to them?Enquiry Using and making simple guides or keys to explore and animalsEnquiry Using and making simple guides or keys to explore and temperature loutside, on the teacher's desk, on the teacher's desk, on the teacher's desk, on the teacher's desk, on the readiator, in the fridge).Enquiry Using and making simple guides or keys to explore and temperature loutside. ThermometersEnquiry Using and making simple guid			Living things and their	Materials (properties		Living things and their	Summer 2 Animals includir humans
Year 4Enquiry Finding patterns in the sounds that are made by different objects such as saucepan lids of different trickesses iPad sound meter app 							
Light and Sound Animals, including humans Materials (states of matter) Materials (states of matter) Living things and their habitats Elec bill - How sound is made - Digestive system - Solids, liquids, gases - Water cycle - Classification - Conductor	Year 4	Light and Sound - How sound is made - Pitch and volume. Enquiry Finding patterns in the sounds that are made by different objects such as saucepan lids of different sizes or elastic bands of different thicknesses iPad sound meter app	Animals, including humans - Digestive system - Teeth - Food chains Enquiry Research into teeth of different animals. Labelled scientific diagrams TOOTH DECAY EXPT WITH EGG SHELLS	Materials (states of matter) - Solids, liquids, gases - Changes of state Enquiry Group together solids, liquids and gases. Investigate what temperature liquids freeze at. What happens to them? Research boiling point of different liquids. What do you understand by flammable/inflammable?	Materials (states of matter) - Water cycle evaporation and condensation. Enquiry Observe the evaporation of water from different places in the school linked with temperature (outside, on the teacher's desk, on the radiator, in the fridge). Thermometers	Living things and their habitats - Classification - Environmental Impact Enquiry Using and making simple guides or keys to explore and identify local plants and animals	Summer 2 Electricity - Simple circuits - Conductors and insulators Enquiry Investigate which materials are conductors and whi are insulators.

CEDAR Children's Academ

Science – Subject Overview

Children's Academy							
	5	- Reproduction in	 Mixing and separating 		Enquiry	Enquiry	
	<u>Enquiry</u>	animals.	solutions	<u>Enquiry</u>	Grow plants from cuttings.	What if the average	
	Group planets based on		- Reversible and	Designing and making a		lifespan of a human was	
	their	Enquiry	irreversible changes	variety of parachutes	Tables	200? (Explorify)	
	size/atmosphere/orbit	Researching gestation	- Fair tests	and carrying out fair	Line graph	Devise a set of	
	time/ rotational period	periods of different		tests to determine		questions to ask	
	etc.	mammals	Enguiry	which designs are the		different people about	
		Bar Charts	Investigate dissolving of	most effective		the changes that	
	Modelling proven		salt/sugar. Patterns in	Stopwatches		happened to them as	
	theories Labelled		time taken to dissolve	Tables		they reached particular	
	scientific diagrams		with different			milestone ages. Collate	
	U U		temperatures/ different			all responses and	
	Observe phases of the		sizes of sugar/ stirring or			compile a table of	
	moon for a month.		not stirring.			information about the	
			Thermometers /			changes that occur as	
			Stopwatches			humans develop to old	
						age.	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Animals, including	Animals, including	Living things and their	Electricity	Light		
	humans	humans	habitats				
				- Function of	- Travels in straight lines		
	- Circulatory system	- Fossils	- Classification	components	- Light sources		
Year 6	- Nutrient and water	- Offspring and Genetics	- Characteristics	- Voltage	- Shadow formation		
	transportation	- Adaptations		- Symbols to represent	- Eyes		
	 Effect of diet, exercise, 		Enquiry	circuits			
	drugs and lifestyle on	Enquiry	Use classification		Enquiry		
	body.	Research adaptations	systems and keys to	Enquiry	Colour experiment.		
		letter between animals.	identify some animals	Does the number of			
	Enquiry		and plants in the	cells affect the	Light refraction (Science sparks)	
	How does your pulse		immediate environment	brightness of a bulb in			
	rate change after		Classification Keys	the circuit?			
	exercise?			iPad light meter app			
	Line Graph			Line graph			

Observing over time

Comparative & Fair Test

Grouping & Classifying

Researching

Pattern Seeking