








































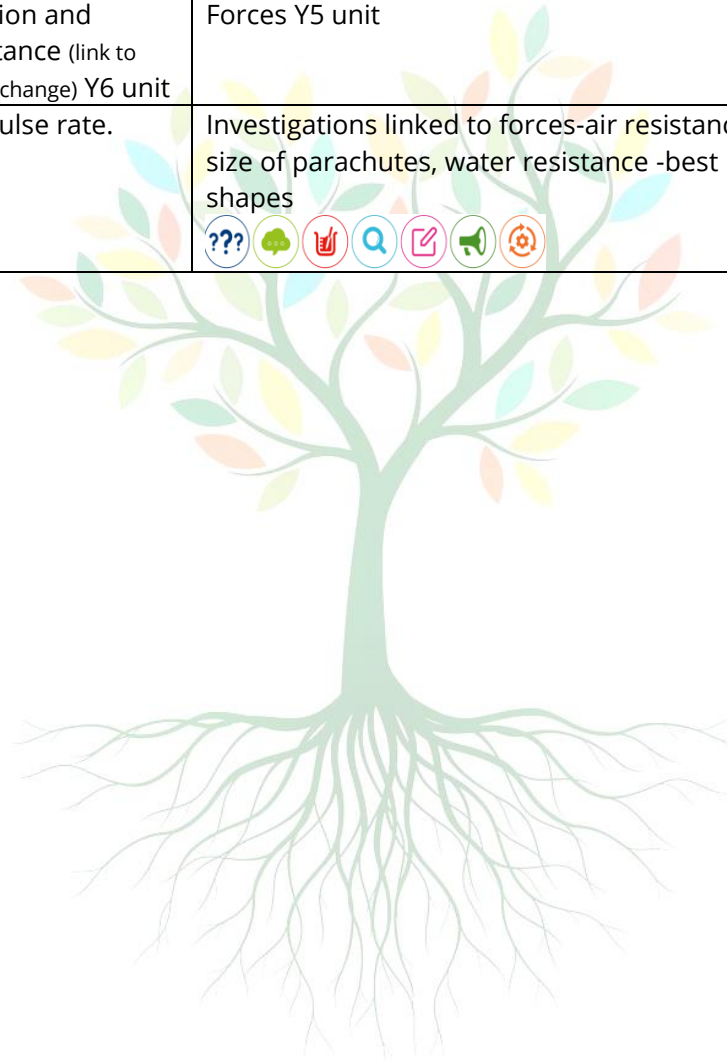
Science Long Term Plan

Rowan A	Animals including Humans.	Materials	Living things and their habitats	Plants	Forces (+rocks with Y2)
Working Scientifically	INVESTIGATION: How can we sort things using senses? 	INVESTIGATION: Predict and test objects -magnetic, transparent, float, or can be squashed or stretched.  	INVESTIGATION: An experiment linked to keeping cool (shade for animals)   	INVESTIGATION: Can a plant grow in the dark?     	INVESTIGATION: How many people can the boat hold before it sinks?   

Sycamore A	Living things and their habitats	Forces-e.g. twisting, stretching	Animals inc. humans needs, diet, exercise, hygiene	Plants Recap habitats-linked to forests	Forces-moving on different surfaces, ramps	Rocks
Working Scientifically	Do all minibeasts live in the same microhabitat?    	What materials can be changed by squashing, bending, twisting and stretching?     	What exercises will make my heart beat faster?    	What does a plant need to survive?	How does the surface affect the time it takes an object to slide down a slope?	Which rocks can be scratched with a nail, are porous, or can float in water?

Oak A	Y4 unit Animals inc Humans -digestive system, teeth, food chains	Year 4 unit Sound	Y3 Unit Forces extend with-gravity, air and water resistance and use of pulleys levers and gears- Y5 only -Evolution and inheritance	Y4 and Y5 units Living things and habitats- grouping, classification, environmental threats to animals, life cycles
Working scientifically:	Digestive system demonstration (tights, crackers etc.)  	Seeing sound experiment Sound insulation   	Buoyancy investigation    	Lever investigation Long term investigation linked to decomposition




Cherry A	Animals inc humans (circulatory system) Y6 unit	Evolution and inheritance (link to climate change) Y6 unit	Forces Y5 unit	Y5/6 units Living things and their habitats.
Science working scientifically.	Exp -based on exercise and pulse rate. 		Investigations linked to forces-air resistance-size of parachutes, water resistance -best shapes 	Investigations linked to propagation of plants. Growing bacteria in different conditions. 



Rowan B	Animals inc humans- growing, skeleton	Use of materials, include recycling	Plants+ environmental issues	Earth and Space Weather	
Working Scientifically	INVESTIGATION: What happens to our bodies during exercise?	INVESTIGATION: To identify the properties of a material.	INVESTIGATION: What affects the growth of a plant the most?	INVESTIGATION: It is colder when it rains then when it is sunny?	

Sycamore B	Forces- inc magnets	Use of materials, include recycling	Plants- inc. importance of them and environmental issues Living things-habitats linked to sea and the Amazon	Animals inc humans- growing, skeleton	Light
Working Scientifically	Which materials will the Iron Man want to eat (which materials are magnetic)?	Which material are waterproof observe the response to twisting, bending, squashing and stretching?	Are there some plants which are able to survive extreme conditions? (Comparative test – grow plants in different conditions eg no light, no water... and see which survive)	Can people with longer Femurs jump further?	Keeping the light source and object the same – can you change the length of a shadow?

Oak B	Y4 unit Electricity Y3 unit Light	Y4/5 units States of Matter –Materials: properties and changes, inc. use of single use plastics	Y5 unit Animals incl. humans	Y5 unit Earth and space
Working scientifically	Investigation: which materials are good conductors? Light investigation	Investigation: Does the width of the bowl affect the rate of evaporation? Reversible change investigation		

Cherry B	Y6 unit Light (+ recap of sound Y4 unit)	Y6 unit Electricity	Y5 unit Animals including humans focus on healthy living)	Y5 unit Materials- properties changes states of matter	Y5 unit Earth and space (revisit)	Living things (yr 6 only)
Working scientifically	Can we make light bend around corners? 	Mini investigations exploring circuits using "What if....?" cards.	Which household substances dissolve in water? Is dissolving reversible? Own enquiry based on rusting. 	Investigation linked to shadows during the day. 	Investigation of children's choice	