Science long term plan 2022-23

Year Group	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Little Owls	**Autumn**		**Spring**		**Summer**	
Investigations	**What's inside the bottle? Observe Why does this stick? Magnets What has happened to the water? Ice**		**Growing How can I help my cress seeds to grow? Plants**		**Are we all the same size? Will I grow before the holidays? Observing change**	
F2	**Ourselves/Autumn Preparing for Winter**		**Spring**		**Summer**	
Investigations	**Observe ice melting or ice in the outdoor area Observe physical changes outside linked to Autumn**		**What happens in Spring? - plant and animal observations Observe physical changes outside linked to Spring**		**What happens in summer? Observe physical changes outside linked to Summer Parts of a plant**	
Year 1	Seasonal change Autumn and Winter Everyday materials		Body parts and senses	Plants Spring	Seasonal Change Summer	Animals including humans
Investigations	Which material is the most waterproof for the Jolly Postman's bag?		Can they identify objects using their senses?	What does a plant need to grow?	Does the temperature change throughout the four seasons?	Can they identify rainforest animals and compare them based on their

						speed and what they eat?
Year 2	Animals inc humans	All living things and their habitats	Uses of everyday materials	Animals inc humans	Plants	All living things and their habitats
Investigations	-Why is mould growing so quickly? -How do I feel after exercising?	-It is alive or dead? -What will happen to the hungry polar bear?	-How far can I stretch a Curly wurly? -Can I bend it?	How much has the baby grown?	-What do plants need to grow?	-Do all minibeasts live in the same habitat?
Year 3	Light	Forces (friction)	Forces (magnets)	Sound	Plants	Animals including humans
Investigations	- Changing shadows - Which surfaces reflect light?	- cars travelling on different surfaces	- magnetic/non-magnetic sorting	- insulating sound	- best conditions for growing	- leg length compared to distance of jumps
Year 4	Rocks and Soil		Teeth and Digestion	States of Matter Water Cycle	Electricity	Living Things
Investigations	What purposes do rocks have? Which rocks are porous?		Can you explain the functions of the parts of the digestive system? What is tooth decay?	What Makes Materials Change State? Do Gases Weigh Anything?	Which materials can electricity pass through?	Classifying vertebrae and invertebrate animals

Year 5	Earth and Space		Properties and changes to materials	Living things and their habitats	Forces	Animals including humans
Investigations	Shadows - monitor throughout the day Moon Diary - Phases of the moon		Volcano eruption - mixtures (irreversible change)	Compare growth of plants (asexual/sexual)	Water resistance-changing surface area of clay Air resistance - parachutes	Human timeline (photographs)
Year 6	light	Electricity	All living things and their habitats	Evolution and Inheritance	Animals including humans	
Investigations	Does light travel in a straight line? Can we find the colours of the rainbow? How are shadows formed?	Do the number of components in a circuit affect the brightness/volume/ speed of a lamp/buzzer/motor ?	What conditions are the best for growing mould?	How have Homo Sapiens evolved?	How does exercise affect our Heart Rate? How does the heart make sure blood is pumped around the whole body?	

Long term plan for coverage of Raeburn Primary Science Programme of Study, 2014 NC EYFS Development Matters and EYFS Profile 2018

We can choose to place the units of study in any term with the relevant Key Stage

There will be elements of some Programmes of Study that will need to be studied not just in one term, but in several terms throughout the year. For example, learning about seasonal changes will need to take place in different terms.

In EYFS learning can happen ‘In the moment’, so if an opportunity arises then practitioners will respond and allow a child's interest to lead the learning experiences.