Science Curriculum Journey

(Sound, Light and Electricity)

Reception

I can make predictions and test them out.
I can group different percussion instruments based on how they are played.
I know that some toys can move by remote control and that this requires power to come from a source i.e. batteries.
I know how shadows form.

Year 1

Year 2

Year 3

I can look closely to find the answers to my scientific test.
I know we need light to see and that dark is the absence of light.
I know light reflect from surfaces and that light from the sun can be dangerous for our eyes.
I know shadows form when an opaque object blocks a light source.

Year 4

I can use evidence to make predictions and draw conclusions which will improve my experiment.
I know sounds are formed through vibrations which travel to the ear through a medium and can vary in pitch and volume
I can construct and name the parts of a simple series electrical circuit and identify whether a circuit is complete and will light a lamp.

Year 5

Year 6

I can plan enquiries with variables and measurements from scientific equipment to fair test my predictions and draw conclusions.
I know light travels from a light source to our eyes in straight lines and objects give out or reflect light into the eye.
I know shadows have the same shape as the objects that cast them.

I know the number and voltage of a cell affects the strength of the electrical current and can use recognised symbols when representing a simple circuit in a diagram.

Year 7

I can select, plan and carry out scientific enquiries, identifying independent, dependent and control variables.

I know the differences in resistance between conducting and insulating components.