

PROGRESSION OF SKILLS AND VOCABULARY POLICY 2019



SCIENCE ESSENTIAL SKILLS Y1-Y6: ELECTRICITY					
KEY STAGE 1		LOWER KEY STAGE 2		UPPER KEY STAGE 2	
End of Y1 expectations	End of Y2 expectations	End of Y3 expectations	End of Y4 expectations	End of Y5 expectations	End of Y6 expectations
Identifying and naming:					
Identify and talk about products that use electricity.			Identify and name a range of familiar devices and equipment that require electricity for power.		Identify and name components of a circuit and define terms, such as voltage and current in relation to series circuits.
Series circuits:					
	Create working circuits in the context of D&T (e.g. to light a bulb or work a buzzer).		Construct operational simple series circuits, using a range of components and switches for control, and use these to make simple devices.		Work scientifically to construct a series circuit for a specific device or outcome and explain how it works.
Circuit symbols:					
			Predict if a circuit will work based on whether it is a complete loop and draw simple circuits, using their own or conventional circuit symbols.		Draw a series circuit, using the conventional circuit symbols.
Current and voltage:					
			Recognise that a cell (battery) is a power source, generating and pushing current (electricity) through a circuit, and by		Describe the relationship between the number or voltage of a cell or cells and the effect it has on a bulb or buzzer for example.

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			adding cells the power source increases.		
Conductors and insulators:					
			Sort and classify materials into those that are conductors and those that are insulators, identifying similarities within the groups.		Predict materials that could be good conductors of electricity and conduct a fair test to show this.
Safety:					
Recognise that electricity can be dangerous.	Identify dangerous scenarios from pictures or video clips.	Create rules that show an understanding of electrical safety requirements in the home.	Recognise the dangers of working with electricity and explain how to work safely.		Demonstrate how to work safely with electrical circuits.

KEY VOCABULARY: ELECTRICITY					
KEY STAGE 1		LOWER KEY STAGE 2		UPPER KEY STAGE 2	
End of Y1 expectations	End of Y2 expectations	End of Y3 expectations	End of Y4 expectations	End of Y5 expectations	End of Y6 expectations
			danger, electrical safety appliances, electricity, electrical circuit, cell, wire, bulb, buzzer, sign insulators wood, rubber plastic, glass conductors metal, water switch open, closed		working safely with electricity, electrical safety, danger voltage, brightness, volume switches, series, circuit, circuit diagram, symbols switch, bulb, buzzer, motor