

PEMBRIDGE CE PRIMARY SCHOOL LEARNING JOURNEY KEY

Pembridge is a school where we encourage everyone to be inspired through faith in God and to live by Christian values so that our teaching and learning is of the highest quality, our whole community flourishes and we reflect all that is worthy of praise.

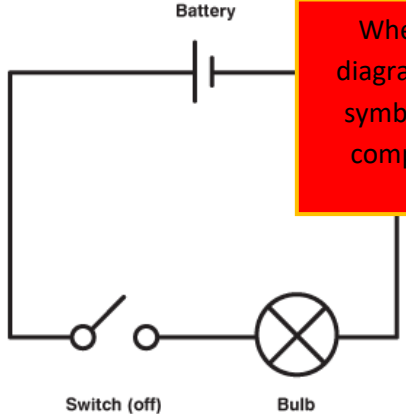
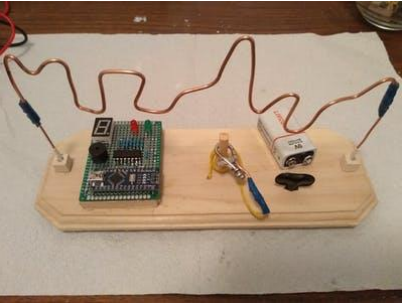
SUBJECT: Science

YEAR: A

TERM: Autumn 1

YEAR GROUPS: 5/6

KEY QUESTION: How can we make – and translate – circuit diagrams?

Question	Vocabulary to use	Information which will help me		Can I...?
What is the function of a circuit and what are the components called?	battery bulb buzzer cell charge circuit		Batteries are also called cells. Have you noticed the + and - signs on batteries? These are the positive and negative terminals.	- Explain the function of a circuit and name the components - Use symbols to draw a circuit that I have made - Make changes in a circuit and explain the impact of these - Hypothesise a change that might be made in order to have a particular effect - Observe and explain the effect of a change in voltage and comment on the safety issues - Use my knowledge to make an electrical project eg quiz game, steady hand game or traffic light system
How can we use symbols to draw a diagram of a circuit?	component conductor connection		When you draw circuit diagrams, you need to use symbols to represent the components in a circuit.	
Can changes be made in a circuit to vary eg. the brightness of a bulb or the loudness of a buzzer?	current electricity electrons energy insulator materials material		Different types of switches can be made. This one uses a paper clip.	
What is the effect of changing the voltage of a battery?	motor negative positive resistance static		Have you seen static electricity? What causes it?	
Can a traffic light system be made?	switch symbol terminal voltage		Above is a simple circuit.	