## **BRUNSHAW PRIMARY SCHOOL**



Inspiring children to be resilient and aspirational learners, within a positive and considerate community

Subject: DT	Year group: 6 Term: Autumn	Title: Ele	ctrical Systems – Steady hand games
What should I already know?  How to make a simple circuit.  Circuit symbols.  Understand that mechanical and electrical systems have an input, process and output with electrics used to make functional products.  Circuit symbols:  wire  switch open switch closed battery buzzer bulb	Facts I will learn  How to identify components in a steady hand game.  How to describe the function of each component in the circuit.  How to make and test a functioning circuit and aseemble it within the case.	<ul> <li>Key questions</li> <li>Why is it essential that form follows function?</li> <li>Can a toy (product) have more than one function?</li> <li>What makes the buzzer sound? (When the handle touches the wire, it closes the circuit, which allows the electricity to flow into the buzzer and make a noise).</li> <li>What are design criteria for?</li> <li>In what ways could we change the difficulty of this toy?</li> </ul>	
<ul> <li>Key Skills</li> <li>To investigate and analyse a range of existing products</li> <li>To model ideas through prototypes.</li> <li>To select from and use a wide range of tools and</li> </ul>	Experiences that school will provide Analysing existing steady hand games. Making a circuit using a buzzer. Designing and making a steady hand game.	Key vocab	Definition  A collection of components that make an electrical system.
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equipment to perform practical tasks.

• To understand and use electronics in products.

A material that allows electricity to

flow through it.

conductor

To develop design criteria to inform design and		insulator	A material that does not allow
functionality.			electricity to flow through it.
To evaluate ideas and products against a success		series	A closed circuit where the current only
criteria and consider the views of others to improve		circuit	follows one path.
work.		function	How an object or product operates or
			works.
Web links	Experiences that could be provided at home	prototype	A simple model that lets you test out
	Playing steady hand games.		your idea. How it will look and work.
https://www.bbc.co.uk/bitesize/topics/zj44jxs/articles/	Evaluating products and considering how they		
<u>zhkgvwx</u>	could be improved.		
(What are conductors and insulators?)			
https://www.bbc.co.uk/bitesize/topics/zj44jxs/articles/			
zqryn9q			
(Circuit symbols)			