Great Meols Primary School - Design and Technology			
Simple Circuits and Switches	Year Four		Buzz Game
Real life examples			
• Electricity is a type of energy that is used to power lots of things. For electricity to flow,		Vocabulary:	
there has to be a complete circuit with no breaks. The electricity flowing through a circuit is called the current and it can be used to power an output device such as a light.		circuit	the path through which electricity travels
 Games, such as operation and wire loop g 	ames. GMR	compo- nent	a part or element of an electrical system
use electric circuits to make the game work.			a material which allows an electric current to pass through it
• When switched on, the tweezers or hoops act as a switch to complete the circuit and so the buzzer or		input devices	components that are used to control an electrical circuit
bulb lights up.		insulator	a material that doesn't easily allow electric current to pass through it
wire loop/ wire shape	Long Wre Buzzer	parallel circuits	components are positioned on different branches of wire. If one branch breaks the other branches still work
Steps to Success Designing:			
• Who are you designing your game for?	You -	series	Parallel Circuit there is only one path that the electricity can
• How will it stand up?	WINI	circuit	flow through
• What will happen if the wire is touched?			light bulb
What equipment will you need?How will you work safely?		switch	a device for making and breaking the con- nection in an electric circuit
		wire	metal drawn out into the form of a thin flexi- ble thread or rod
• How long does your wire need to be?		Golden Threads	
• How will you bend and cut the wire?		User	who the product is for
• How will you add your components?	wire loop	Purpose	the job your product is supposed to do
Evaluating: Does your game work? 			cisions making choices about your design
 Does it suit your user? 		Innovation	using your own ideas or methods