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Buglawton Primary School Be the Best We Can Subject: DT **Topic: Electrical systems** Year: 6 Term: Autumn What should I already know? What should I be able to do by the end of Prior Key Vocabulary the unit? Battery Series circuit Generate, develop, model and communicate Begin to understand and use electrical their ideas through discussion, annotated systems in their products linked to sketches, cross-sectional and exploded science coverage. diagrams, prototypes, pattern pieces. Begin to understand how more complex Use research and develop design criteria to a circuit made in a a source of electrical electrical circuits and components can be inform the design of innovative, functional, single loop, where the power used to create functional products. appealing products that are fit for purpose. electricity passes by Begin to apply their understanding of • Accurately apply a range of finishing one part of the circuit computing to program and control their techniques, including those from art and at a time. products. design. Connection Conductor Know and use technical vocabulary Draw up a specification for their design-link relevant to the project. with Mathematics and Science. • Plan the order of their work, choosing What will I know by the end of the unit? appropriate materials, tools and techniques. Understand and use electrical systems in where something is allows electricity to • Suggest alternative methods of making if their products linked to science connected pass through it the first attempts fail. coverage. Insulator buzzer • Confidently select appropriate tools, Apply their understanding of computing materials, components and techniques and to program, monitor and control their use them products. Use tools safely and accurately. Know and use technical vocabulary Assemble components to make working does not allow Makes a noise when relevant to the project. models. electricity passes electricity to pass Demonstrate when to make modifications as through it Understand that mechanical and • through it they go along. Key Vocabulary electrical systems have an input, process Know how more complex electrical circuits • input output and output. and components can be used to create where energy or where energy or functional products. information enters the • Evaluate their products, identifying information leaves the strengths and areas for development, and circuit

carrying out appropriate tests.

circuit

Agreed Real-Life Outcome: Research how electricity is used to create sound and lights. Produce informative leaflet or similar to describe this process.

Make a shadow theatre. Begin by creating a circuit with a bulb in, then create shadow puppets and a screen



process

It receives a signal from the input and then tells the output what to do. This could be a switch or resistor.