



Design and Technology Topic: Design, make and eva up picture.	aluate a light- Year: 3 Term: Summer 2
 Key Knowledge/Content: To know that an electrical circuit must be complete for electricity to flow. To know that a switch can be used to complete and break an electrical circuit. To know facts from the history and invention of the electric light bulb(s) - by Sir Joseph Swan and Thomas Edison. 	 Key vocabulary with definition: Prior vocabulary: Mechanism- A device used to create movement. Linkage – A device used in a product to create movement. Rotation – Spinning around an axis or centre. New vocabulary: Circuit – A circular path that electricity flows through. Electricity – A form of energy. Component – A part or an element of a larger whole. Energy – The current that flows through the wires. Battery- Stores the energy and coverts it into electrical energy. Wire – Carries electricity. Bulb – Produces the light from electricity.
Links to: Prior learning: The children designed, made and evaluated a moving flipbook. The children explored mechanisms. Future learning: The children are going to design, make and evaluate a light up picture.	

By the end of this unit

All children can: design a product with a target audience and create a success criteria focusing on features of individual design ideas.

Most children can: demonstrate how to use equipment to cut and attach materials and evaluate electrical products.

Some children can: demonstrate and explain how to make adjustments whilst making the product and explain the steps to take in order to test a product.

Background understanding for teachers and

parents:

The children are going to research, design, make and evaluate a light-up picture. The children will look at the components needed alongside the functions for a simple electrical system.

Curriculum Driver (one):

Communication

Evidence outcome:

The children are going to be discussing their designs and comparing their product with others.