Year 6 -Term 2 – DT

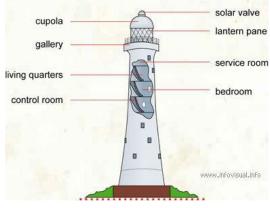
Electrical systems – lighthouse nightlight.

Curriculum Key Question: How can I take care of myself and others? **Topic: Letters from the lighthouse**

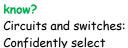
Key Vocabulary

Nightlight - A light that lights up when dark. Automatic - something that works without any input on its own. Series circuit - a circuit where flow of electricity flows in one path through all components in order. Parallel circuit - a circuit where the flow of electricity splits into different paths and passes through components at the same time. LDR - Light dependent resistor. Output device - components that produce an outcome (e.g. bulb) Input device - components that are used to control a circuit (e.g. switch, LDR) User - who the product is intended for. Purpose - what the product is being used for.

LIGHTHOUSE



Examples of Year 6 lighthouses:



What should I already

appropriate materials including electrical components. To be able to make a torch.

Term 2 science - to make a series circuit with a buld and switch as well as an LDR.

DT skills:

Generate, develop, and model innovative ideas, through discussion, prototypes, and annotated sketches. Formulate a clear plan, including a step-by-step list of what needs to be done and resources to be

used. Evaluate their product, identifying strengths and areas for development, and carry out appropriate tests.



Research into night lights and lighthouses:





Equipment needed for lighthouse: