

Learning Flow

Year 3 & 4 Term 3 & 4 – Electrical systems

Roots Lesson – What do I already know?

What do we already Know?

Topic Page – Prior knowledge , What do we already know? What questions do we have?

What prior knowledge do I need?

Research – What already exists?

- What is an electrical system?
- What are they used for?
- How is a simple circuit made?

D1: Collect information from a number of different sources and use this information to inform design ideas in words, labelled sketches, diagrams and models, keeping in mind fit for purpose and the end user.

Technical Workshops. & Design Criteria

- Identifying components of a circuit
- Understanding purpose of the components
- Creating a simple circuit
- Design Criteria – Design a simple electrical circuit

D1: Share ideas through words, labelled sketches and models, recognising that designs have to meet a range of needs, including being fit for purpose.

M2: Use an understanding of different materials to choose which materials will be needed for a task and explain why.

Make

- Use design to make your circuit
- Select components and equipment
- Join safely and securely

M2: Choose from a range of materials, showing an understanding of their different characteristics and with support begin to combine them.

T3: Attach features to a design using appropriate joining techniques. Being to use a glue gun with close supervision.

Evaluate

- Does it fit design criteria?
- Does the circuit work?
- What could you have done differently

D1: Recognising that designs have to meet a range of needs, including being fit for purpose.

What do I know now?

- Knowledge demonstration- Quiz.