

# 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.