

# Design & Technology

*All children – regardless of gender, starting point or background – will have the opportunity to engage with a high-quality design technology education. They will be equipped with the knowledge, skills and vocabulary to use creativity and imagination to design and make products that solve real and relevant problems in a variety of contexts. We intend to inspire a sense of enjoyment and curiosity about design technology.*

## Electrical Systems – Simple Circuits & Switches

Autumn 2

### New Knowledge:

- Components can be controlled by switches or by computing equipment.
- A circuit is a path through which electricity passes.
- A simple circuit can be used to illuminate.
- A conductor is a material that allows an electrical current to pass through it.
- Switches are used to open and close a circuit.
- More complex circuits can illuminate a large structure. eg. Blackpool illuminations

### Key Vocabulary:

- Electrical systems
- Series circuit
- Prototype
- Switch
- System
- Battery
- Battery holder
- Wire
- Insulator
- Conductor
- Crocodile Clip

