

# Year 6 **Physics**

## Y6 DT

### Autumn 2, Joint Project: Electricity



#### **Physics:** We are learning about:

- **what happens if you change things in a circuit**  
(Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches)
- **how to record my circuit diagrams using standard symbols**  
(use recognised symbols when representing a simple circuit in a diagram)

#### **Physics:** We are learning to:

- **make accurate measurements** (to be able to take repeat measurements of data using a light metre or data logger)
- **evaluate our results** (to be able to report as to the degrees of trust in results)
- **use our predictions** (to be able to use predictions to set up a fair test)
- **plan a fair test to test my predictions** (to be able to plan a fair-test by recognising and controlling variables)

#### **DT:** We are learning to:

- look at a range of familiar products that use **rotating parts**.
- investigate ways of using **electrical motors** to create rotating parts.
- investigate ways of making a framework for a festive light decoration.
- **design** a festive light decoration with a rotating part.
- **make** a festive light decoration following a design.
- **evaluate** a finished product.

#### Vocabulary

- lamp, bulb, brightness
- buzzer, volume, loudness
- motor, rotation, mechanism, pulley
- circuit, symbols, variation, component
- voltage of cells
- design, make, evaluate, improve, success