

# Leintwardine Endowed CE Primary School Learning Journey Itinerary

‘Letting Our Light Shine’

SUBJECT : DT

YEAR : B

TERM : Autumn 2

YEAR GROUPS : 3/4

**Key Question: Can I design my own torch?**

Previous Knowledge –  
 How to make a simple circuit.  
 How light travels.  
 What causes a shadow.  
 Types of light sources.  
 How to follow a design criteria.

### END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are **emerging** because they can:

Most children will show that they have reached the **expected** level because they can:

Some children will have gone beyond the expected level and will show that they are **exceeding** because they can:

- Using a diagram, describe the main features of torches.
- With support, explain how a torch works.
- Explain how a torch’s design matches its purpose using support.
- Following instructions, create a simple circuit and a switch.
- With key word list, explain conductivity.
- With a diagram, describe what a torch casing should be like.
- Following an example, create a torch casing using a 3D net.
- With support, generate ideas for my own torch.
- With support, follow a design criteria and evaluate my product.

- Identify the main features of torches?
- Explain how a torch works?
- Explain how a torch’s design matches its purpose?
- Create a simple circuit?
- Explain conductivity?
- Create a switch?
- Describe what a torch casing should be like?
- Create a torch casing using a 3D net?
- Generate ideas for my own torch design that meets a design criteria?
- Follow a design to create a torch?
- Evaluate my product?

- Identify, label and explain the main functions of a torch.
- In detail, describe how a torch works.
- Explain how a torch’s design matches its purpose?
- Create an electrical circuit and describe the jobs of its components.
- List conductors and insulators.
- Create a complex switch and explain how it works.
- Design my own 3D net for a torch casing.
- Independently follow a design criteria and evaluate my own torch.

### ASSESSMENT OPPORTUNITIES

Work created during individual lessons.  
 Questioning during the lesson.  
 End of unit task.

### ENRICHMENT OPPORTUNITIES

**Helping children to remember more**

Children create their own torch.

Children spend time evaluating other products.

### SUBJECT SPECIFIC VOCABULARY

torch, conductor, insulator, 3D net, electrical circuit, switch, battery, flow, electron, wire, bulb, design, purpose, success criteria, features, casing, product, evaluate, portable

### CROSS-CURRICULAR LINKS

**Links that we can make to help children make sense of what we want them to know and be able to do.**

Science – Learning about light.