

PEMBRIDGE CE PRIMARY SCHOOL LEARNING JOURNEY ITINERARY

Pembridge is a school where we encourage everyone to be inspired through faith in God and to live by Christian values so that our teaching and learning is of the highest quality, our whole community flourishes and we reflect all that is worthy of praise.

SUBJECT: Science

YEAR: A

TERM: Autumn 2

YEAR GROUPS: 3/4

KEY QUESTION: *What happens when I switch on a light?*

PREVIOUS KNOWLEDGE We would expect most children to already be able to:

- Have some knowledge of appliances that use electricity including batteries.
- Have some knowledge of the basic components of a circuit.

End of Unit Objectives

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

- Name some appliances that use electricity. **KQ1**
- Use components to make a simple circuit. **KQ2**
- Use a range of materials to test for conductivity. **KQ3**
- Use some guidance to design a switch. **KQ4**
- Identify materials that do not conduct electricity as electrical insulators. **KQ5**

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

- Recognise that appliances that use batteries are using electricity. **KQ1**
- Try changing the components in a circuit. **KQ2**
- Work out how best to test for conductivity. **KQ3**
- Apply their knowledge of conductivity to design a switch. **KQ4**
- Recognise where and why insulators are important. **KQ5**

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

- Comment on the importance of electricity. **KQ1**
- Discover what happens if we add further components to a circuit. **KQ2**
- Experiment to find out whether some metals conduct electricity more effectively than others. **KQ3**
- Design two switches and test their effectiveness. **KQ4**
- Recognise the importance of insulators for electrical safety. **KQ5**

ASSESSMENT OPPORTUNITIES – What are children aiming for?

Children will be able to demonstrate their learning through:

- Verbal responses during discussion in lessons and further questioning to extend their understanding.
- Carrying out practical tasks and discussion whilst this takes place.

ENRICHMENT OPPORTUNITIES –

What can we give children along the journey to help them remember more?

We will endeavour to include:

- Practical tasks to enhance learning
- Quizzes and 'physical' ways of remembering.

CROSS-CURRICULAR LINKS –

What links can we make to help children make sense of what we want them to know and be able to do?

This itinerary fits with our other learning through:

D and T making games

LEARNING BEHAVIOURS *Children will be expected to:*

Tries new things

Have a go, even with components that may be unfamiliar.

Works hard

Responds to pink marking and discussion with teacher in order to further understanding.

Concentrates

Completes tasks carefully.

Self-motivates

Asks questions to extend knowledge and understanding.

Imagines

Tries to think ahead when carrying out a task.

Improves

Makes additions or corrections based on feedback.

Understands others

Works as part of a group to find out about events or question various sources.

Doesn't give up

Perseveres with challenges that are set.