

Year 6
Term – Spring 1

Bright Sparks!

**This term we will be
learning...**

All about electricity!

Pupils will be asked to design and make a product involving electronic circuits.

To do this, they will learn to represent a range of circuits using scientific diagrams. They will also learn how to solve problems with the electronic components of a circuit and suggest solutions to fix the circuits.

Pupils will also look at the effectiveness of components in a circuit focusing on how to make the brightest lamp or loudest buzzer.



Key Information

A circuit is a path that electricity flows along. It starts at a power source like a battery and flows through a wire to a lightbulb or other object and back to the other side of the power source.

Electricity is measured in volts and amperes (amps).

The batteries in a circuit need to be arranged in a particular way in order for the electricity to flow and the circuit to work.

Current only flows when a circuit is complete. Electricity flows at the speed of light.

Many everyday items use electricity such as televisions, hair dryers, lights, kettles and games consoles.

Electrical energy can be converted into other types of energy such as light, heat, movement or sound.

English

- In Reading we will make and justify inferences using point + evidence + explain and identify effective language choices. We will also be focusing on language and implied meaning through analysis of author word choice.
- In Writing pupils will learn to add depth to their writing by focusing on language choice and the use of stylistic features. They will focus on tense consistency and the use of the active and passive voice.

This half term's key text is:

The Lady of Shalott: Alfred Lord Tennyson

Mathematics

Pupils will learn to:

- Translate and reflect shapes
- Identify numbers to three decimal places
- Multiply and divide b by 10, 100 and 1,000
- Multiply and divide decimals by integers
- Use division to solve complex problems
- Convert fractions to decimals and decimals to fractions
- Identify different shapes and their properties

Computing

We are advertisers!

Pupils will look at different mediums to promote products. They will analyse current methods of advertisement and create their own adverts for a range of products.

You might like to join in with our learning at home by:

Reading

Expose yourself to a wide range of texts – newspapers, non-fiction, poetry, stories. Make sure you are reading DAILY!

Watching

<https://www.bbc.com/bitesize/topics/zq99q6f/resources/1>

Doing

Visit the Michael Faraday Museum at The Royal Institution to look at Farraday's laboratory.

Making

Try some of these fun investigations involving electricity!

<https://frugalfun4boys.com/awesome-electricity-projects-for-kids/>