

Bright Sparks Year 6 Spring 1

As geographers we will investigate where key scientists lived, as well as the impact of Global warming and how electric cars can support this.

As citizens of the world we will explore the use of electric cars and the impact that this has on the environment. We will also investigate the questions 'What does it mean to be bright?' and 'What different types of bright are there?'

As designers and technologists we will apply our knowledge of circuits to plan and create a controllable fairground ride, working to a design brief. We will first investigate working fairground rides, evaluate their current purpose and use these as a model for our work. We will then evaluate our work and discuss what changes we could make to improve it.

Other activities to be covered:

As readers and writers we will be studying non-chronological reports, analysing the features before creating our own about an exotic pet. We will then read a narrative called 'Gone Away', using our skill of reading at length and comprehension before using this as a basis for our own writing.

As mathematicians we will be looking at decimals and percentages before moving onto algebra.

As musicians we will be looking at 'growth'.

As readers and writers we will create a biography of key scientists, using our knowledge of non-fiction writing. We will use a range of different sources to research these people whilst making notes to support our writing. We will also create a set of instructions for creating our controllable fairground ride, as well as writing an explanation text for an electric car and how this works.

As scientists we will associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit as well as comparing and giving reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. We will also use recognised symbols when representing a simple circuit in a diagram and we will plan and conduct fair experiments as well as recording data in a variety of ways. Through out theme we will study the life and work of key scientists such as Faraday and Tesla. We will discuss how to be safe around electricity and why this important, looking at the dangers and hazards presented as well as looking at power stations and how these work. We will also plan and conduct a fair experiment to test a hypothesis.

As artists we will study the life and work of Da Vinci, before recreating some of his most famous pieces, using a range of mediums.

As Historians we will create a timeline of key electrical inventions and research these as well as learning about the history of electricity and how this has impacted the world today. We will learn about the life and works of Steve Jobs and his contribution to electrical technology.

Other activities to be covered:

As athletes we will cover Hockey and Badminton.

As learners of religion we will be exploring what belonging and faith means in two different traditions. We will be comparing the lives of contemporary key leaders and considering the qualities of leadership. Furthermore, we will be examining the challenges, commitments and guidance followers face and how this impacts on their lives and faith. We will raise deep questions and ask what might be the most difficult aspects of being Buddhist, Christian and or Humanist in Britain today e.g. What defines us and what is our purpose?

As Spanish speakers we will be learning about the Spanish cities and culture. We will locate key Spanish cities on a map before researching interesting facts and places to visit in these key cities. We will plan and produce a city guidebook using ICT.