



Year 6: Let The Sparks Fly!



Class text:
Rooftoppers
by Katherine
Rundell

WOW:
Year 6 residential
Robotics day!

As scientists we will: build on our understanding of light, recognising how light travels and enables us to see things, alongside how it creates the shapes of shadows. We will then focus on the light source of a lightbulb and explore what affects the brightness of a bulb, completing a scientific investigation and building on our understanding of electrical circuits. We will produce scientific diagrams, showing our understanding of component symbols.

As designers we will: consider what we feel an inventor is before researching Thomas Edison, considering why his work may be viewed as inspiring. We will then apply our scientific learning to understand computer control systems, recognising different inputs and outputs. We will use our knowledge to design our own robots, creating electrical circuits with different inputs and outputs. We will then use our learning to take part in our robotics day!



Pupils' lines of enquiry:

How can voltage be created?
I wonder how many different components you can have in a single circuit?

How does light create shadows?
How is the human eye able to see shadows?

What is the maximum voltage that can run through a lightbulb?



As Language specialists we will:

Explore 'The Lost Words' in Poetry Week, considering personification. We will explore the character of Sophie in our class text, unpicking the language features used to describe her character. We will write a news report focusing on her capture. We will use the short film 'The Facts in the case of Mr. Hollow' to create atmosphere through setting description and portray characters by showing how other characters react, developing our narrative writing skills.



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Subjects being taught throughout this project that do not directly link:

Maths:

Place value

Four operations

English:

spellings – revision of Year 3/4 statutory word lists, words with the short vowel sound /i/ spelled 'y', words with the long vowel sound /i/ spelled 'y' Words with 'cial'/shul/ after a vowel, Words with 'tial'

Handwriting practice

R.E:

What do people believe about life?

ICT:

Digital Literacy

- Gender and the media
- our responsibility to others' wellbeing

Information technology

- Understanding the difference between the internet and the World Wide Web

P.E

Achieving our personal best

French

La Seconde Guerre Mondiale