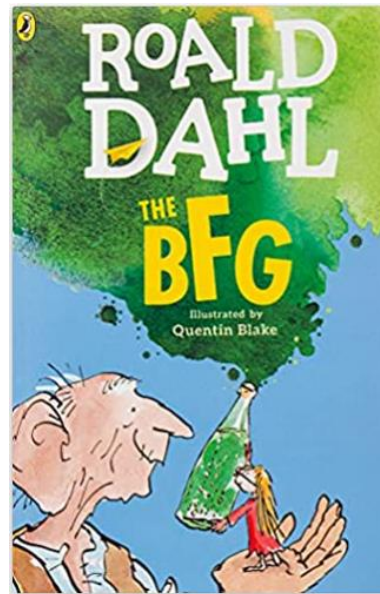


Sparks and Waves

Investigating Electricity and Sound

Year 3 and 4



Big Question: What are sparks and waves and why do we need them?

Week 1	<p>Why is Sophie's night so silent? (How sounds are made)</p> <p>How do sound waves reach the BFG's big ears?</p> <p>Science: The children will learn how sounds are made and record their observations. They will recognise that vibrations from sounds travel through a medium to the ear.</p> <p>English</p> <p>Year 3 Foxes and Moles will start reading the story, The BFG (by Roald Dahl) and the reading domains will be making predictions from the text and explaining the meaning of words in context. The writing focus will be character descriptions and they will be collecting words and phrases from the text that describe characters and write expanded noun phrases. They will also be learning about the present perfect form of verbs. Year 4 Rabbits will be reading 'The Wild Way Home' and will be focusing on writing instructions on how to create a scrumptious stew over a campfire. In Maths this week the children in year 3 will be learning about unit and non-unit fractions and comparing and ordering them. Year 4 will be working on fractions and looking at how they can be ordered and compared.</p> <p>In R.E the children will learn about the Khanda and it's importance to Sikhs.</p> <p>In P.E, the children will be developing their gymnastic agility. They will use core skills learnt previously to produce sequences on the apparatus using different levels.</p> <p>In French the children will revisit the topic of 'homes' and extend their learning by saying where they live with their opinion.</p> <p>PSHE is Healthy Me: the children will explore friendships</p> <p>In Music the year 3 children continue learning to play a string instrument with the music service. They will practise a new piece using standard stave notation, will practise performing a piece from memory, will compose and layer simple ostinati to create an accompaniment for a song.</p> <p>In Computing, we will be learning about different input devices to record sound and output devices to listen to it. They will then record their voices using a computer, and reflect on what makes a good audio recording</p>
Week 2	<p>How do the sounds the BFG can hear differ?</p> <p>Do the giants sound different if they are further away?</p> <p>Science: The children will find out how the pitch of a sound can be changed by carrying out an investigation using bottles of water. They will record and present their evidence. They will discover why sounds get fainter and make a string telephone.</p> <p>English - We will be having a story teller coming into visit this week.</p>

	<p>Year 3 Foxes will be writing a character description and editing it. They will then look at the features of a fantasy setting description and add adverbial phrases to improve their sentences. They will continue to learn about how to use the present perfect form in sentences.</p> <p>The 3 and 4 Moles will continue to read the BFG, focusing on the meaning of words, similes, suffixes and developing their skills of deduction and inference. They will write a recipe.</p> <p>Year 4 Rabbits will be reading 'The Wild Way Home' and will be focusing on writing a retell of events from the perspective of Harby when he is hunting for the wolf. Our reading domain focus will be on looking at the vocabulary used by the author.</p> <p>In Maths this week the children in year 3 will be looking at fractions on a number line, counting in fractions and understanding equivalent fractions using bar models. Year 4 will continue to look at fractions and how they can be equivalent.</p> <p>In R.E the children will learn about the 5 Ks of Sikhism.</p> <p>In P.E, the children will be developing their gymnastic agility. They will use core skills learnt previously to produce sequences on the apparatus using different levels.</p> <p>In French the children will revisit the topic of 'homes' and extend their learning by saying where they live with their opinion.</p> <p>PSHE is Healthy Me: the children will learn about the effects of smoking on their health</p> <p>In Music the year 3 children continue learning to play a string instrument with the music service. They will practise performing a piece from memory, will compose and layer simple ostinati to create an accompaniment for a song, will improvise more than 1 bar of music with confidence.</p> <p>In Computing, we will be recording and re-recording their voices to improve their recordings. They will edit the recordings, removing long pauses and mistakes. Learners will also listen to a range of podcasts and identify the features of a podcast.</p>
Week 3	<p>How did Sophie's bedclothes smother the sound?</p> <p>Does the BFG use electricity in his home?</p> <p>Science: The children will investigate the best materials for absorbing sound. They will find out how electricity is generated and identify appliances that use electricity.</p> <p>English</p> <p>Year 3 Foxes will be making inferences from the text, writing similes to use in a setting, identifying and collecting adventurous adjectives and writing a fantasy setting description. They will also be reading and following instructions in order to make a dream jar from the BFG.</p>

	<p>The Year 3 and 4 Moles will continue reading the BFG. They will focus on improving vocabulary, and looking at synonyms. They will also be reading and following instructions in order to make a dream jar from the BFG. Year 4 Rabbits will be reading 'The Wild Way Home' and will be focusing on writing a leaflet on all the different animals you can see in the new forest. Our reading domain focus will be on answering retrieval questions from the story.</p> <p>In Maths this week the children in year 3 will be understanding the relationship between fractions and scales and doing their end of unit assessment. They will then start learning about measuring mass in grams and kilograms and equivalent masses. Year 4 will continue working on fractions and look at how they can be improper.</p> <p>In R.E the children will continue to learn about the 5 Ks of Sikhism.</p> <p>In P.E, the children will be developing their gymnastic agility. They will use core skills learnt previously to produce sequences on the apparatus using different levels.</p> <p>In French, the children will learn how to describe their bedroom, naming colours and furniture.</p> <p>PSHE is Healthy Me: the children will learn about the effects of alcohol on their health</p> <p>In Music the year 3 children continue learning to play a string instrument with the music service. They will practise composing and layering simple ostinati to create an accompaniment for a song, will use aural skills to match sound and notation patterns.</p> <p>In Computing, we will be trying to record our voices, import them to Audacity and align them to create layers in their recordings. Learners will learn how to save their work so it remains editable. They will then plan their own podcast which they will work on in future lessons.</p> <p>ART DAY How did Kandinsky use sound to influence his artwork? The children will find out about the artist Kandinsky and explore his work. They will produce an abstract piece of art to depict a chosen piece of music, using colour mixing and collage.</p>
<p>Week 4</p>	<p>How could you light up the BFG's cave?</p> <p>How can we keep the BFG safe from sparks?</p> <p>Science: The children will make a simple series electrical circuit and identify whether a lamp will light in a circuit. They will also identify and sort materials into electrical conductors and insulators.</p> <p>English:</p> <p>Year 3 Foxes and the Moles will revise how to use possessive apostrophes and summarise main ideas. They will plan a fantasy story opening based on the BFG and begin to write it.</p> <p>Year 4 Rabbits will be reading 'The Wild Way Home' and will be focusing on writing their own book review about the story. Our reading domain focus will be on summarising.</p>

	<p>In Maths this week the children in year 3 will be comparing masses and then adding and subtracting mass. They will begin measuring capacity in ml and l. Year 4 will be completing their fraction unit by</p> <p>In R.E the children will learn about the Sikh celebration Bandi chor Divas.</p> <p>In P.E, the children will be developing their gymnastic agility. They will use core skills learnt previously to produce sequences on the apparatus using different levels.</p> <p>In French, the children will talk about their ideas for an ideal bedroom</p> <p>PSHE is Healthy Me: the discussions will focus on peer pressure.</p> <p>In Music the year 3 children continue learning to play a string instrument with the music service. They will recognise changes in metre aurally and through movement, will use aural skills to match sound and notation patterns.</p> <p>In Computing, we will be learning to record the voice tracks for their podcast. They will review their recordings and re-record if necessary. Learners will edit, trim, and align their voice recordings, and then save their project so they can continue working on it in the next lesson.</p>
Week 5	<p>What does the BFG need to know about switches?</p> <p>How can we use sparks and waves to scare the giants and save the children?</p> <p>Science: the children will find out how switches work and design and make a model using an electrical circuit.</p> <p>English:</p> <p>Year 3 Foxes and Year 3 and 4 Moles will continue to write their fantasy story and edit it. They will also be retrieving information from a text and completing end of term assessments. Year 4 Rabbits will be reading 'GLOW', a book about light and bioluminescence. We will then write a non-chronological report on an animal making their own light.</p> <p>In Maths this week the children in year 3 will be learning about equivalent capacities and volume, comparing them and adding and subtracting. Year 4 will be looking at length and perimeter.</p> <p>In R.E the children learn about the Sikh celebration Vaisakhi.</p> <p>In P.E, the children will be developing their gymnastic agility. They will use core skills learnt previously to produce sequences on the apparatus using different levels.</p> <p>In French, we will look at how Easter is celebrated in France, we will make an Easter card and take part in an Easter egg hunt.</p> <p>PSHE is Healthy Me: the children will be taught about assertiveness and knowing what is right and wrong.</p> <p>In Music the year 3 children continue learning to play a string instrument with the music service. They will perform a piece from memory with an improvised bar, will make constructive comments on own and others' music to develop compositions and performances discussing some of the inter-related dimensions of music.</p>

	In Computing , we will be developing their podcast further by adding content such as sound effects and background music. The audio will be layered with their existing voice recordings and exported as an audio file.
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