

Year 5 & 6 – Global Warming

Mathematics

For Mathematics this term, year 5 will be completing the topics of shape, position & direction, decimals, negative numbers and measurements.

For shape, they will learn to estimate, measure and draw angles up to 180 degrees. They will learn to calculate angles around a point and on a straight line. They will also learn to read and plot coordinates and to solve problems with coordinates. They will explore translation and reflection of shapes on a grid. The children will explore decimals by learning how to add and subtract numbers with different numbers of decimal places. They will also learn to multiply and divide by 10, 100 and 1000. Year 5 will also learn about negative numbers. They will order and compare negative numbers and calculate the difference between two numbers, including negative numbers. For measurement, the children will be learning how to convert between units such as millimetres and centimetres. They will also convert between metric and imperial units. The children will also learn that volume is measured in cubic centimetres and will compare, estimate and calculate volume and capacity.

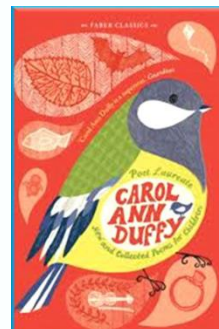
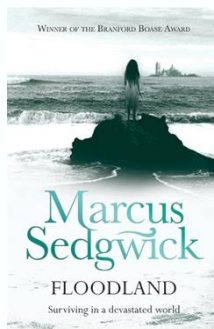
Year 6 will be learning about shape, position and direction. They will be learning to calculate angles that are vertically opposite. They will solve problems involving missing angles in triangles and quadrilaterals. The children will also explore nets of different 3D shapes. Year 6 will also learn to read and plot points across 4 quadrants and will solve problems involving coordinates. They will learn to translate and reflect shapes across four quadrants. On completion of these units, year 6 will consolidate their learning from across the year 6 curriculum.

English

Reading:

This term, the children will be reading the book 'Floodland' by Marcus Sedgwick. *Floodland* is a powerful dystopian novel about survival in a world ruined by rising sea levels. It is exciting, relevant and thought-provoking and also links to the plight of refugees and their journeys as they flee danger in their own countries.

After half term as part of our 'Steps to Read' programme the children will be reading a range of modern fiction and poetry. The books will support the children to develop their word reading and comprehension skills.



Writing:

This term, year 5 and 6 children will be reading the books 'The Promise' by Nicola Davies and 'Greta and the Giants' by Zoe Tucker. The children will use the texts to write across a range of genres including short stories and persuasive letters. They will be developing their use of more sophisticated punctuation such as dashes, commas and brackets for parenthesis.



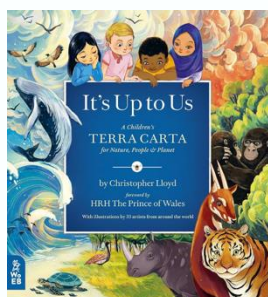
The Big Picture – Global Warming

Geography – Climate Change

For Geography, the children will be learning about climate change. They will explore what causes climate change and the impacts of rising temperatures around the world. They will use a variety of maps to explore countries that produce the most CO₂, and countries which have seen the greatest rise in average temperatures. They will look at Bangladesh as a case study of how changing climate is causing increased flooding and will explore how governments are working to tackle climate change through exploring the UN sustainable development goals. The unit will be enhanced with a visit to the Field Studies Council in Bushy Park, where the children will complete a variety of field studies activities related to climate change.

History – King Charles III and the Terra Carta

For History, the children will be learning about King Charles III and the Terra Carta. They will learn about the Carolean Kings and the changing views on King Charles III. They will learn about what the Terra Carta is and its aims. The children will make a timeline of key environmental developments from history. Finally, they will learn about the impact of Charles III's environmental work and why he is nicknamed 'The Green King'.



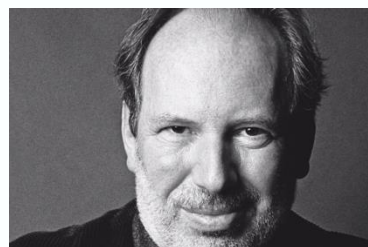
Design & Technology – Floating Garden

For D&T, years 5 & 6 will be learning about innovative products that tackle environmental issues. They will consider the challenges faced by farmers in Bangladesh due to increased flooding and will design, model and make a system to help people to grow crops on flood land. They will explore materials and design features that will enable their structures to be strong and stable in water and will explore ways to measure, cut and join components securely. The children will test and evaluate their structures and suggest improvements to their designs.

Computing

For Computing, the children will be learning how to create a video advertisement for their floating garden prototypes. They will capture, edit, and manipulate their videos. At the end of the unit, the children will have the opportunity to reflect on and assess their progress in creating a video.

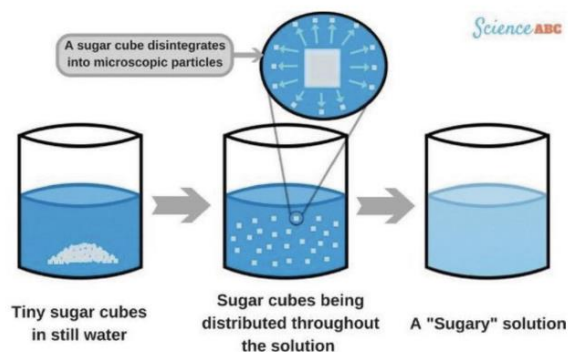
Music



For Music, the children will be listening and responding to a piece of orchestral music by Hans Zimmer. Hans Zimmer composed the piece 'Earth' as a celebration of the planet we live on. Hans also set every child a challenge – to take his piece and create something new from it. Using inspiration from the piece, the children will create their own piece of music using instruments and voice and will perform as an ensemble.

Science

For Science this term, the children will learn about materials. Throughout this unit, students will identify and classify different materials based on their properties including their ability to conduct or insulate heat. They will explore the concept of mixtures and solutions, and the different ways to separate materials from them including filtration and evaporation. They will gain insights into everyday uses of these scientific processes. The children will learn that changes occur when materials are heated and cooled, and that sometimes these changes are irreversible.



Art - Collage

Year 5 & 6 will be studying the art of collage this term. They will explore the work of collage artist Henri Rousseau and Clare Börsch, whose work was inspired by the environment. The children will explore how paper can be torn, cut, shaped and formed to make patterns and forms. They will focus upon layering papers and shapes to create the illusion of depth in a collage themed around a vibrant forest. The children will then explore tonal value, as they practice shading, and will explore how shadows can create mood. They will make a collage that depicts a forest by night, and will compare the mood created in their two contrasting pieces of art.

Physical Education

For P.E. this term, the children will be practising skills across the sports of tennis, cricket, athletics and dance. Through these sports, they will practise running, jumping, throwing and catching. They will apply these skills to compete in our annual sports day event.

PSHE

In PSHE, the children will be completing the unit 'Families and People who Care for Me.' They will learn that families are important for children growing up because they can give love, security and stability. They will continue to develop their understanding of what characterises a healthy family including respect for parents. They will learn how to recognise if family relationships are making them feel unhappy or unsafe, and how to seek help or advice from others if needed. They will continue to understand that families can sometimes look different from their own, and that they should respect those differences and know that other children's families are also characterised by love and care. They will consider the reasons why people decide to get married and the importance of wedding vows in declaring a lifelong commitment.

Religious Education

For RE this term, the children will be learning about Hinduism and other world views through studying the questions: 'What might a Hindu gain from a pilgrimage to India?' and 'How does worldview help people to decide what is important?' The children will be able to name and locate some pilgrimage sites for Hindus and describe what happens at different Hindu pilgrimage sites. They will consider some of the reasons why Hindus may choose to go on a pilgrimage.

The children will make connections between the different world views they have studied and understand the similarities and differences between the different worldviews and what connects them together in society.

They will evaluate the various sources of wisdom about what is important and justify their own opinions.