



## Curriculum Overview Year 6

At Westgate, we organise our curriculum themes on a two-year rolling programme so that consecutive year groups plan and learn together, while learning is made age-appropriate through differentiation, teacher expectation and challenge.

In addition to the National Curriculum, we also teach Philosophy for Children (P4C) across school. Our Foreign Language is Spanish and is taught from Reception upwards.

Our curriculum is designed to be relevant to the children we teach, to connect with the local and wider community, to promote enquiry and independence, to prepare them for life in the 21<sup>st</sup> century, and above all to be exciting and engaging. We ensure this through a hands-on, practical approach, drawing on visits, visitors and themed events in order to inspire children as learners.

### Summary of curriculum content in this phase:

#### Year A

**English:** Literacy is taught everyday with an additional guided reading, spelling and handwriting session regularly. A range of genres are taught throughout the year, such as, non-fiction, fiction and poetry. **Fiction topics are:** stories with flashbacks, extending narrative texts and featured significant authors and their texts. **Non-fiction texts:** discussion texts, biography and autobiographies, playscripts and stories and persuasive scripts. **Poetry units:** pattern and rhyme, shape poems and different types of poems. There is also regular spelling, grammar and punctuation sessions linked to English lessons to develop key skills. We place a big emphasis on proof reading and redrafting so children have a bigger responsibility for independently improving and analysing their own writing.

**Mathematics:** Maths is taught every day based on **Maths No Problem** text books. Throughout the year, the children cover the following topics:

1. **Number, place value, rounding.** Year 6 will be taught to read, write, order and compare numbers up to 10 000 000 and determine the value of each digit, round any whole number to a required degree of accuracy and use negative numbers in context, and calculate intervals across zero
2. **Addition, subtraction, multiplication and division.** Children are taught to multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication and divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. They will be able to divide numbers up to 4 digits by a two-digit number using the formal written method of short division where

appropriate, interpreting remainders according to the context and perform mental calculations, including with mixed operations and large numbers. They learn to identify common factors, common multiples and prime numbers and use their knowledge of the order of operations to carry out calculations involving the four operations.

3. **Fractions.** Children use common factors to simplify fractions and use common multiples to express fractions in the same denomination. They compare and order fractions, including fractions less than 1 We teach them to add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
4. **Ratio and Proportion.** Year 6 solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts and solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison They solve problems involving similar shapes where the scale factor is known or can be found and solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
5. **Measures and data.** Year 6 solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. They use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
6. **Algebra.** We teach Year 6 to use simple formulae and generate and describe linear number sequences. They begin to express missing number problems algebraically and find pairs of numbers that satisfy an equation with two unknowns.
7. **Geometry.** Children draw 2-D shapes using given dimensions and angles. They can recognise, describe and build simple 3-D shapes, including making nets. They are taught to compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. They illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius and recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

**Science:** The science topics this year are: **Materials, Earth and Space, Classification, Body works (including Sex and Relationship Education) and Evolution and Inheritance.** In Year 6 we look at the relationship between the Earth, moon and Sun and study the 1960s Race into Space (linking autobiographical text types with Neil Armstrong). We study the features of materials and look at their properties in different states. In the summer term explore evolution theories and look at what makes our bodies healthy studying heart rate and the effect of exercise on our bodies.

**PE:** Over the course of the year the children develop a range of skills, such as, coordination, team work, throwing and catching skills. These are all developed through a range of sports: cricket, table tennis, rugby, hockey, exercise, fitness, rounders, football and ultimate Frisbee. In addition to other years Year 6 participate in various transition sporting activities with PHGS. There are also units on gym techniques and sequencing and units on dance and movement. In addition to this we perform, after much practice, a May Day dance to an audience of parents each year.

**Computing:** Our computing topics this year are: We are App Planners, We are project managers, We are Market researchers, We are interface designers, We are APP developers, We are Marketeers.

**Geography:** We conduct a detailed study of **South America**, its climate, population and land use. This is linked later to our Mayan study as we explore geographical skills in another continent! Later to look at how **rivers** start at source and go to the sea. We look in particular at human land use at different stages of the River Wharfe which passes very close to our school. Google maps allow us to track its path! Why do people settle by rivers and how has land use changed over time? Later in the year we look at the impact of **Natural disasters** upon human developments.

**History:** Our history topics are **Ancient Greece** and **Slavery**. We look at slavery throughout the ages but in particular concentrate on the triangular trade and how people were taken from Africa across the Atlantic to North and South America. The Ancient Greeks had many wonderful inventions and innovations which are still being used today. At the end of the year we look at Natural Disasters and their impact on human development.

**Music :**In the Autumn term the children learn Harvest songs and investigate pitch. They compose fanfares and learn songs for our Christmas production. In the spring term we learn all about South American songs and music. In the summer term we explore graphic scores and prepare for the Leaver's production.

**Art & Design:** In Year A, linked to our topic Slavery, we study the work of African born artist Julien Sinzogan, who has represented the spirits of the slaves returning to Africa in his work 'Gates of Return'. In the spring term we work with clay to make urns, and use tools to carve and add shapes, texture and pattern. As the year comes to an end, we complete a topic on portraits and this then provides us with a picture to be used in our Leaver's Booklets.

**Design & Technology:** Our three topics this year are: **Mechanical** study, making a model car powered by a motor; our **food topic** is linked to Ancient Greece and exploring food eaten in the Mediterranean countries; our **textiles topic** is to design a back pack or pencil case for a specific audience.

**Languages (Spanish):** Every week Year 6 children benefit from a visit from a Spanish teacher from our local High School who teaches both conversational and the early stages of written Spanish. They begin to construct more complex sentences in order to describe, for example, themselves, their family, what they are wearing and what they have in their pencil case.

**PSHE:** As part of our Sex and Relationship lessons we will learn about the changes that occur during puberty, consider different attitudes and values around gender stereotyping and sexuality and what values are important to them in relationships and to appreciate the importance of friendship in intimate relationships. We will also learn about human reproduction in the context of the human lifecycle, how a baby is made and grows (conception and pregnancy), about roles and responsibilities of carers and parents and learn to answer each other's questions about sex and relationships with confidence, where to find support and advice when they need it. We will also learn about some myths and misconceptions about HIV, who it affects and how it is transmitted. We will also touch on FGM and about the importance for girls to be protected against FGM. During our drugs topic we will learn about the risks associated with using different drugs, including tobacco and nicotine products, alcohol, solvents, medicines and other legal and illegal drugs. During our MindMate lessons we will look at what mental health is, what can affect mental health and some ways of dealing with this. As part of our Keeping safe topic we will learn about feelings

of being out and about in the local area with increasing independence, about recognising and responding to peer pressure and about the consequences of anti-social behaviour (including gangs and gang related behaviour)

## **Year B**

**English:** As Year A

**Mathematics:** As Year A

**Science:** The science topics this year are: **forces, electricity, animals, human development, light and healthy eating**. Through these topics we study the effects of air resistance, water resistance and friction, which act between moving surfaces. The children learn about the muscular, skeletal, digestive system and circulatory system. They develop a more detailed understanding of mirrors and the reflections they form, and explore refraction. Year 6 also explore in detail the life cycle of various plants and animals, including concluding their primary phase of Sex and Relationships Education.

**PE:** As Year A

**Computing:** As year A

**History:** The historical topics are: **'Saltaire'** and **'The Mayans'**. We study the effects of the Industrial revolution and visit Saltaire to see what impact Titus Salt had upon his workers. Was he a modern day hero or a ruthless business man? The Mayan civilisation was very different to Europe at the similar time. What made it so different, what beliefs did the people of South America hold and what does evidence tell us and what questions still lie untold?

**Geography:** **South America** links very closely with our Mayans topic. We explore both the countries and land use in South America as well as look at the plates under our feet and see why parts of this continent still suffer from volcanoes and earthquakes. Later in the year we look at the impact of **Natural disasters** upon human developments.

**Music:** as Year A

**Art & Design:** In Year B we look at the style and influence of Pop Art and David Hockney linked to our Saltaire visit in History. We look at style and make images which we believe follow the spirit of this famous art movement. Our clay work is linked to our Mayan topic and how they used their own system of communications. In the summer term we look at poster styles and techniques as we create a poster for our Y6 Leaver's play.

**Design & Technology:** Our three topics this year are: **Electrical Systems**, making a light control for a model house (linked to our Saltaire topic; our **structures** topic is to make a Mayan temple looking at strong and weak shapes; our **food topic** is to design a healthy sandwich for the beginning of our end of year residential.

**Languages (Spanish):** As Year A.

**PSHE:** As part of our Sex and Relationship lessons we will learn about the changes that occur during puberty, consider different attitudes and values around gender stereotyping and sexuality and what values are important to them in relationships and to appreciate the importance of friendship in intimate relationships. We will also learn about human reproduction in the context of the human lifecycle, how a baby is made and grows (conception and pregnancy), about roles and responsibilities of carers and parents and learn to answer each other's questions about sex and relationships with confidence, where to find support and advice when they need it. We will also learn about some myths and misconceptions about HIV, who it affects and how it is transmitted. We will also touch on FGM and about the importance for girls to be protected against FGM. During our drugs topic we will learn about the risks associated with using different drugs, including tobacco and nicotine products, alcohol, solvents, medicines and other legal and illegal drugs. During our MindMate lessons we will look at what mental health is, what can affect mental health and some ways of dealing with this. As part of our Keeping safe topic we will learn about feelings of being out and about in the local area with increasing independence, about recognising and responding to peer pressure and about the consequences of anti-social behaviour (including gangs and gang related behaviour)