



**Eastbrook Primary
Curriculum Overview
Year 4/5
Autumn Term**

English Writing and Reading

Handwriting

The children will be learning the Nelson Handwriting script. They will have many opportunities throughout the week to perfect their handwriting.

Spelling

The children will have ten spellings to learn each week working through the Year Four and Five words in addition to words from the novels they are studying.

Reading: (Word reading / Comprehension)

- Develop positive attitudes to reading by listening to and discussing a wide range of fiction
- Increase familiarity with a range of books
- Identify themes and conventions
- Discuss words and phrases that capture readers' interest and imagination
- Ask questions to improve understanding of the text
- Draw inferences and justify inferences

Writing: (Transcription / Composition)

- Plan writing by discussing writing similar to that which they are planning to write, learning from its structure, vocabulary and grammar
- Plan writing by discussing and recording ideas
- Draft and write by composing and rehearsing sentences orally
- Draft and write by organising paragraphs around a theme
- In non-narrative use simple organisational devices

Speaking and Listening:

- Maintain attention and participate actively in collaborative conversations, responding to comments
- Ask relevant questions to extend their understanding and build vocabulary and knowledge
- Listen and respond appropriately to adults and peers
- Articulate and justify answers and opinions
- Use spoken language to develop understanding through speculating, imagining and exploring ideas
- Speak audibly and fluently with an increasing command of Standard English

Computing –

This half term the pupils will be introduced to programming in particular the Python language.

Emphasis will be placed on laying out their work correctly so the computer 'returns' the correct input.

Learning Outcomes:

- Begin to create their own algorithms.
- Begin to order commands accurately.
- Begin to anticipate outcomes.

Mathematics – Year 4 and Year 5

- * Order and compare numbers beyond 1,000
- * Identify and represent and estimate numbers using different representations
- * Recognise the place value of each digit in a four- digit numbers (thousands, hundreds, tens and ones)
- * Read roman numerals to 100 (i to c) and know that over time, the numeral system changed to include the concept of zero and place value
- * Find 1,000 more or less than a given number
- * Round any number to the nearest 10, 100, or 1,000
- * Solve number and practical problems that involve all the above and with increasingly large positive numbers.
- * Count in multiples of 6, 7, 9, 25 and 1,000
- * Count backwards through zero to include negative numbers
- * Interpret negative numbers in context count forwards and backwards with positive and negative whole numbers including through zero
- * Add and subtract numbers with and up 4 digits * Mental maths test will focus on the following topics:
- * Various Timetables * Adding single and two digits.

Science –

This half term we will be studying 'forces'.

Skills

- Following a set of instructions
- Observing results
- Working as a team

Learning Outcomes:

The pupil can describe the effects of simple forces that involve contact (air and water resistance, friction), and others that act at a distance (magnetic forces, including those between like and unlike magnetic poles; and gravity). Pupils might find out how scientists, for example, Galileo Galilei and Isaac Newton helped to develop the theory of gravitation.

PSHE & Citizenship–

Exploring how to become a functioning person in a modern society by exploring themes such as Respect, Forgiveness, Teamwork, Kindness.

This will be done through group work and discussion and creating their own narratives explaining their understanding of the themes.

Physical Education –

P.E. takes place on Wednesday from 14:00 until 14:45.

It is led by a member of the Secondary Team. They will be exploring different genres of Dance. They will be learning to lead and follow routines.

Homework

Children will be creating their own Volcanoes and Ironmen at home. They will also have weekly spellings and maths activities.

Music

Two specialist teachers deliver a 30minute singing assembly to the primary school every week. This covers many areas of the curriculum such as pitch, volume and beat.

History, Geography, Art and D&T –

In Geography in Autumn two pupils will be learning all about volcanoes

Learning Objectives:

- To understand what a volcano is and where they are in the world.
- To explore what happens when a volcano erupts.
- To explore the features of volcanoes.
- To understand what tectonic plates are and what the 'ring of fire' is.
- To explore life in volcanic areas.
- To compare a volcanic area to a non-volcanic area.
- To be able to show what you have learnt about volcanoes.

Art - will involve links to maths with the first week children learning about the Recaman Sequence and creating their own one.

The second week will see them creating their own Sieve of Eratosthenes which introduces Prime Numbers and they will follow up the week after with Prime Spirals.

They will then focus on One-point Perspective.

RE – Barking and Dagenham SACRE

The children will be exploring journeys they've been on and important journeys that have occurred in history. This half term the Christmas Journey of Joseph and Mary will be explored.