

Year Six Curriculum

Autumn Term: Power to the People

English

- to understand the difference between formal and informal writing
- to use active and passive sentence structures
- to recognise and use noun phrases
- to understand the terms synonym and antonym
- to use commas to clarify meaning
- to use hyphens, brackets and dashes
- to understand and use the key features of different genres of writing
- to apply their growing knowledge of root words, prefixes and suffixes and use these in writing
- to identify the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
- in narratives, to describe settings, characters and atmosphere and integrate dialogue to convey character and advance the action
- to use relative clauses beginning with who, which, where, when, whose or that
- to draw inferences such as inferring characters' feelings, thoughts and motives from their actions, and justify inferences with evidence
- to distinguish between statements of fact and opinion
- to retrieve, record and present information from non-fiction

Mathematics

- to read, write, order, round and compare numbers up to 10 000 000 and determine the value of each digit
- to solve problems using negative numbers
- to calculate efficiently using all four operations and solve multi-step problems
- to recognise factors, multiples and prime numbers
- to use common factors to simplify fractions; to use common multiples to express fractions
- to add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- calculate decimal fraction equivalents for a simple fraction
- recall and use equivalences between simple fractions, decimals and percentages,
- to solve problems involving the calculation and conversion of units of measure
- solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
- use, read, write and convert between standard units, converting measurements using decimal notation
- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets
- describe positions on the full coordinate grid (all four quadrants)
- interpret and construct pie charts and line graphs and use these to solve problems

Computing

- Appreciation of IT: to know how to send an e-mail using ItsLearning; to know how to use the Internet/E-Mail safely and responsibly; to know how to save an e-mail as a draft, CC a contact and attach a file
- Espresso Coding: to understand how to use variables and formulae in code; to use variables and loops and write outputs to the screen; to know how to make an app, choosing objects and events

Science

Light:

- Understand that light travels in straight lines, can be refracted and reflected
- Plan a scientific enquiry which is a fair test, collect data and measure accurately
- Understand how the eye uses light to see

Evolution:

- To recognise that characteristics are passed from parents to offspring and that living things change over time
- To understand that changes can be an advantage or a disadvantage

History

- The Industrial Revolution: to compare Britain before and after the Industrial Revolution; to know the effect of the Industrial Revolution on people's lives; to know the roles of children in Britain during the Industrial Revolution.; to know about the life of Brunel and his contributions to the era

Geography

- The British Empire – mapping skills

Art

- Printing: to make observational sketches of plants in the local environment; to create a printing block using their sketchbook ideas; to use a printing block to create a repeating pattern; to add layers of colour/print by adding detail to the printing block

D&T

- Bridge Building: to use independent research skills to investigate different bridge structures; to explore ways of strengthening a structure; to measure, mark, cut and join materials accurately; to select appropriate materials, equipment, tools and techniques; to evaluate work and explain the improvements which were made

R.E.

- Humanism: to understand the meaning and historical roots of Humanism; to know what equality means and why people should be treated equally; to recognise what Humanists celebrate and why
- Christianity in the local community and beyond: to understand the role of the parish priest in the life of the local community; to understand the rituals associated with baptism, confirmation, weddings and funerals; to know the origins of some Christmas traditions

Music

- Livin' on a Prayer: to listen and respond to a piece of music; to understand the geographical origin of the music and what era it was composed in; to play instrumental parts; to improvise to a piece of music; to listen to and evaluate others' work and suggest ways to improve it

P.E

- Games Skills: to understand the basic principles of warming and cooling down up and the need to prepare properly for games; to practise a range of passing and dribbling skills; to understand and apply basic strategic and tactical principles for defence and attack; to choose, combine and perform skills more fluently and effectively
- Swimming

British Values

- Tolerance of those of different faiths and beliefs – Explore the differences between religions and Humanism, exploring beliefs and faiths in line with work on Black History Month.