

Curriculum Overview for Year 5 – Spring 2020 - 2021

English

Writing objectives:

- Instruction and explanation texts – use of imperative verbs and conjunctions.
- Newspaper reports – use of relative clauses
- Myths and legends – creating atmosphere and characterization
- Film and playscripts – different styles of writing

Poetry:

- Learning by heart and performance poetry

Reading objectives:

- Explain the meaning of words in context.
- Retrieve and record information from fiction and non-fiction texts.
- Summarise main ideas from more than one paragraph.
- Make inferences from a text.
- To predict what might happen from details stated and implied
- To identify and explain how information and narrative content is related and contributes to meaning as a whole
- To identify and explain how meaning is enhanced through choice of words and phrases

Computing

Algorithms + Programming

Plan and use multimedia tools for a maze game
Use logical thinking
Use multiple variables

Data and information

Create questionnaire and collect questionnaire data
Present data using an infographic

How computers work

Understand the differences between the World Wide Web and the internet

Know that web pages can be broken down into smaller packets of data

Communication and safety

Use technology safely, respectfully and responsibly

History

Learn the chronology of Ancient Greece and understand how the Empire was established. Recognise the importance of religion to the Greeks. Discuss and research how we know about the ancient Greeks.

Mathematics

- Compare and order fractions whose denominators are all multiples of the same number
- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- Round decimals with two decimal places to the nearest whole number and to one decimal place
- Read, write, order and compare numbers with up to three decimal places
- Solve problems involving number up to three decimal places
- Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
- Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes
- Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
- Solve problems involving converting between units of time

Art

To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials such as papier mache.
To experiment with different materials to create 3D art.

Music

Gustav Holst – The Planets

- Compose a piece of music that tells a story
- Listening and appraising
- Improvisation
- Compose using synthesisers/keyboard or garage band

PE

Dance – develop dexterity, mobility and fluidity in movements

Yoga - develop dexterity, mobility and fluidity in movements

Gym – develop strength and endurance

RE

To understand the need for being open, honest and truthful and learn how the Bible is a source of truth for Christians.
To understand the value of reflection and meditation.
To become more aware of the need for social interaction and social responsibility and how individuals influence the nature of society.

Science

Earth and Space:

- Explain how the solar system was formed
- Research and compare planets of the solar system
- Compare sizes of the planets
- Explain how day and night are caused
- Explain how the moon moves
- Recognise how the moon's appearance changes

Forces:

- Understand gravity as a force
- Identify effects of air and water resistance and friction

PSHE and Citizenship

Dreams and goals:

- To identify jobs I would like to do and the motivation to achieve this.
- To aspire to meet my goals.

Healthy me:

- To know the risks associated with cigarettes and alcohol.
- To know how to follow a healthy lifestyle through exercise and diet.

Design and Technology

To design and create a moving model, incorporating pulleys systems, wheels and electrical circuits.

Geography

To identify latitude, longitude and the equator.
Recognise different time zones and the reasons why these exist.
To explore difference in temperature and climate across two countries.
To use mapping skills effectively to identify contours.