



Year 5

Curriculum Newsletter

Spring 2018

Welcome to the spring term, we look forward to the next 11 weeks of hard work with some exciting learning. Outlined over these pages are the main objectives that will be covered this term. *Mrs Randall and Mr Roper*

English

This term we will be delivering our English lessons based around different texts linked to our topic.

The main texts will be:

- The speeches of Martin Luther King and other famous orators
- Airlock by Simon Cheshire

The children will take part in a variety of speaking and listening activities as well as participating in drama and role play.

They will produce a variety of text types with a main focus on science fiction, speech writing and other persuasive texts.

Reading is incredibly important at Carrington and will be a focus across all areas of the curriculum. Following the Big Cat reading scheme, all the children will have a reading book which they will be expected to read at home at least three times a week.

Maths

- **Place Value**

Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000

Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0

Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit

Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000

- **Addition and Subtraction**

Add and subtract numbers, including decimal numbers, mentally with increasingly large numbers

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

- **Geometry**

Draw given angles, and measure them in degrees ($^{\circ}$)

Identify: angles at a point and 1 whole turn (total 360°); angles at a point on a straight line and half a turn (total 180°); other multiples of 90°

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles

- **Multiplication and Division**

Multiply numbers up to 4 digits by a one- or two-digit number and divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

- **Fractions and Decimals**

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

Compare and order fractions whose denominators are all multiples of the same number

Read, write, order, compare, round and convert to fractions numbers with up to three decimal places

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Recognise and describe number sequences including fractions and decimals.

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

- **Measurement**

Convert between different units of metric and imperial measurement

Use all four operations to solve problems involving measure using decimal notation, including scaling

Calculate and compare the area and perimeter of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes

- **Statistics**

Complete, read and interpret information in tables, including timetables

Solve comparison, sum and difference problems using information presented in a line graph

Topic

This term our topic is called One Small Step. It will be cross-curricular sessions that include History, Geography, Design and Technology and Art and Design.

Throughout Year 5, the children will be taught how to play brass instruments by a music specialist but composition links will be made to each of the topics.

Focuses for this term will be:

- Design Technology - research, design, test and evaluate pressure rockets.
- Art - study, design and make a stained glass window
 - paint in response to music from the planets suite by Holst
- Music - as above and compose piece of music based on the Moon
- History - research the history and modern workings of the houses of parliament through note-taking
 - research the suffragettes and design a poster (look at the Dearsley window)
 - to look at the RAF centenary, the beginnings of the RAF and write an account of the Battle of Britain
 - make Top Trumps cards of iconic aircraft
- Geography - look at changes over time in the map of London
 - map the school with found and given objects
 - map London showing iconic landmarks

Science

This term we will be learning about Earth, Space and Beyond and Changing Materials, looking at the shape, features and movement within our Solar System and States of Matter.

This will include working scientifically by:

- Planning different types of enquiry to answer questions.
- Taking accurate measurements and repeat them if needed.
- Recording increasingly complex data in various ways.
- Using results to make predictions and suggest further tests
- Presenting findings orally and in writing.
- Identifying scientific evidence for or against an idea.

Organisation

- Homework will be given out on a Thursday and taken in on a Monday.
- Both classes have outdoor PE on a Wednesday afternoon. 5S will have indoor PE on a Monday morning and 5C on a Tuesday morning.
- 5C will have their class assembly on Friday 26th January and 5S will be on Friday 9th February at 2.45pm. We look forward to seeing you there.
- This term we hope to visit Chesham Mosque as part of our RE topic on Islam, we are also aiming to welcome experts in some of our topic areas into school. More details will be given about this as soon as arrangements have been made.

Things to try at home

- Visit the Science museum in London.
- Make your own model of the solar system.
- Visit the RAF museum at Hendon.
- Make a model RAF aeroplane either using a kit or other craft materials.
- Research the Tube map of London then visit London and navigate your way to different landmarks.