Year 5 Autumn Term 2018 Curriculum

We shall be following the Revised National Curriculum and will link work to other areas of the curriculum wherever possible. There will be an on-going emphasis on presentation skills and the use of cursive script.

ENGLISH

Non Fiction – Information Texts

Our first unit of the year will allow the children to fully immerse themselves in our topic – Anglos Saxons. The children will work on their research skills, collaboration and discussion as well as presentation skills whilst they work on compiling a class book on this topic.

Narrative - Myths, legends and fables

Focus will be on understanding how myths, legends and fables tie in to culture and teach life lessons through their narrative. Skills covered will include plotting and pacing of narratives, use of adverbial phrases, subordinate clauses and editing and improving written work. This unit will link to our IPC topic on The Anglo Saxons.

Non Fiction – Explanation Texts

During this unit of work we will explore a range of non-fiction writing styles from note taking, informal and formal written texts and oral presentation skills. Some of the specific skills that we will cover include use of bullet points, formal and informal tone, use of brackets and other parenthesis along with reinforcing oral presentation skills. We will link our work to our IPC topic on Space.

Non Fiction – Instructions

During this unit we will build on the skills developed during Explanation Texts. We will refine vocabulary choices as well as focusing on choosing appropriate time and causal conjunctions. We will further focus on creating complex sentences along with improving and clarifying at a sentence and paragraph level.

We will also work on: - Speaking competently and creatively for different purposes and audiences. - Using dictionaries and thesauruses routinely. - Developing editing skills in texts. - Note taking and turning notes into formal texts and vice versa. - Using different mediums to present our work, including IPads and laptops.

GRAMMAR, PUNCTUATION & SPELLING

During our GPS sessions this term we will be focusing on the spelling of the year 5 curriculum word list as well as other high frequency words. We will also be covering the use of subordinate clauses, relative clauses, apostrophes, speech marks, adverbial phrases and commas.

MATHS

Not all children will cover everything outlined below as work will be tailored to their individual needs.

NUMBER AND PLACE VALUE

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

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 zero

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

Solve number problems and practical problems that involve all of the above

Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

NUMBER, ADDITION AND SUBTRACTION

Add and subtract whole numbers with more than 4 digits, including using formal written methods

Add and subtract numbers mentally with increasingly large numbers

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

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

NUMBER, MULTIPLICATION AND DIVISION

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

Know and use the vocabulary of prime numbers, prime factors and composite numbers

Establish whether a number up to 100 is prime and recall prime numbers up to 19

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

Multiply and divide numbers mentally drawing upon known facts

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

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Recognise and use square numbers and cube numbers, and the notation for squared and cubed

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

NUMBER FRACTIONS

Compare and order fractions whose denominators are all multiples of the same number
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements greater than 1 as a mixed number
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
Read and write decimal numbers as fractions
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
Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5, and those fractions with a denominator of a multiple of 10 or 25.

IPC – ANGLO SAXONS AND SCOTS

During this unit we will be focusing on History and Design & Technology.
In History, we'll be:
Learning when and where the Anglo-Saxons invaded Britain
Understanding the Anglo-Saxons kingdom names and establish meanings.
Describing a typical Anglo-Saxon village and explaining the jobs that they did.
Analysing and describing Anglo-Saxon artefacts and explain what they can teach us about their culture.
Explain religious beliefs and practises of the early Anglo-Saxon people, understanding some of the Gods they worshiped.
In Design & Technology, we'll be:
Designing and building an Anglo-Saxon village based on our prior learning

IPC – SPACE EXPLORERS

During this unit we will be focusing on Science, History, Computing and International.
In Science, we'll be:
Comparing the size of the planets and their distance from the Sun
Finding out about the movements of the Earth, Sun and Moon and how they affect us
Classifying rocks and comparing rocks on Earth with those on the Moon

Finding out about how craters are formed and the forces that are involved
Making a spectrometer to find out about light and what it contains
Finding out about how light travels
Creating a timeline to show the life cycle of a star
Finding out more about the planets in our solar system

In History, we'll be:
Finding out about what people in the past used to think about the Earth, Sun and Moon
Finding out about Galileo and his findings about the Earth, Sun and Moon
Finding out about the constellations and the stories that they tell
Making a timeline to show some of the important events in the history of astronomy and space

In International, we'll be:
Finding out about the International Space Station (ISS)

COMPUTING
We will be using a Curriculum which aims to broaden the children's skills in line with the modern world of technology. In the first half term we will be studying a topic called: We are game designers. We will be exploring and developing our skills with Scratch by following instructions, debugging code and unpicking existing games to enhance our own coding skills. Children will use Scratch to create a game.

During the second part of the term we will study a topic called: We are architects. In this unit the children will develop 3D CAD (Computer Aided Design) skills through working with SketchUp design software. They will build up a variety of transferable skills within the software leading up to a full modelled design of their own space station to link in with our IPC topic.

RE
In the first part of the term we will be considering God, looking at the key question - "What does it mean if God is loving and holy?". We will explore the faith of Christians and how they seek the advice from God for comfort and guidance. In the second part of the term we will consider different places of pilgrimage through different religions during our topic - Places of Pilgrimage. Looking at the key question – ''Why do Hindus/Sikhs/Muslims make sacred journeys?"

PE & GAMES
In Games we will be starting the term with football skills. We will focus on the sport specific skills of passing, dribbling and shooting along with transferable skills of positioning, team work and tactics. In the second part of the term we will be developing skills through OAA (Outdoor Adventurous Activities) including map reading, coordination with further work on team work. This will be in preparation for the Year 5 residential, as well as the orienteering

event in the Summer term. During our indoor lessons we will be taking part in Yoga sessions with Penny Taylor, where children will be practicing 'mindfulness' and 'reflection'. In Sports Hall Athletics we will be learning skills needed to enter competitions at the end of the term. To build on our own leadership skills within PE, we will have opportunities to teach skills to younger pupils in the school.

FRENCH

In the weekly French lessons with Year 5, the children will continue to increase their knowledge of French culture, whilst learning mathematical vocabulary (numbers, shapes, time etc). Their lessons will be linked to IPC topics as often as possible.

MUSIC

Our weekly music session will give children the opportunity to use a variety of instruments including keyboards, and their voices. As always, these sessions will be linked to our IPC topics as much as possible; for example, composing atmospheric music as they travel through space. The children will also get the opportunity to sing once a fortnight during our choir sessions.