

Year 5 Spring Topic Web

Geography: Our World and Beyond

We will be learning about the causes, effects and impact of volcanoes and earthquakes across the world. We will also be locating them using atlases, plate tectonic maps and longitude and latitude.

Art- Making Monotypes

We will be exploring surface and colour through the making of monotypes.

DT- Mechanisms

Our DT focus will be linked to our science work, using mechanisms to make moon buggies or rockets

MFL - French

We will be listening and responding to stories, exploring phonics and grammar using known and new vocabulary, speaking in sentences and reading and writing words and phrases. The focus for Y5 will be Les fruits, les legumes and Je me presente.

Science

We will be working scientifically and investigating:

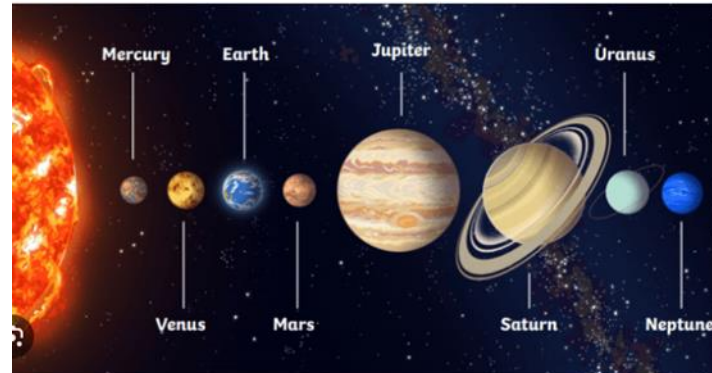
Earth and Space: We will examine the movement of the Earth and other planets relative to our sun in the solar system and the moon's movement compared to the Earth. We will learn about the Earth's rotation to explain day and night.

Geography Vocabulary

Volcano, earthquake, tectonic plate, plate boundary, crater, ash, ash cloud, lava, magma chamber, central vent, earth's crust

Science Vocabulary

Sun, star, moon, planet, sphere, spherical bodies, satellite, orbit, rotate, axis, geocentric model, heliocentric model, astronomer



English

Writing: All fiction and non-fiction writing will use a story as the starting point. There will be regular opportunities for short burst and extended writing covering a wide range of genres.

SPAG - daily focussed sessions will be used to learn spelling rules, punctuation and grammar which will be re-enforced within the children's fiction and non-fiction writing.

Reading: regular focussed sessions to develop comprehension skills, both verbally and written.

Maths

Multiplication and Division

- I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
- I know and can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- I can establish whether a number up to 100 is prime and recall prime numbers up to 19
- I can 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
- I can multiply and divide numbers mentally drawing upon known facts
- I can 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
- I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
- I can solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
- I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
- I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Fractions and Decimals

- I can compare and order fractions whose denominators are all multiples of the same number
- I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- I can 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, $2/5 + 4/5 = 6/5$ or $1 \frac{1}{5}$]
- I can add and subtract fractions with the same denominator and denominators that are multiples of the same number
- I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
- I can read and write decimal numbers as fractions [for example, $0.71 = 71/100$]
- I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- I can round decimals with two decimal places to the nearest whole number and to one decimal place
- I can read, write, order and compare numbers with up to three decimal places
- I can solve problems involving number up to three decimal places
- I can 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
- I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25.

Computing

In Computing, we will be building our knowledge of creating media as well as keeping ourselves safe on the internet.

Music

In Music, we will be learning to read music, perform and play with instruments and using our voices.

RE / PSHE

In RE, we will focusing on these big questions:

Year 3/4	Year 5/6
Incarnation: What is the Trinity	Incarnation: Was Jesus the Messiah?
Gospel: What kind of world did Jesus want?	Gospel: What would Jesus do?
Salvation: Why do Christians call the day Jesus died Good Friday?	Salvation: What did Jesus do to save human beings? (Y5) What difference does the resurrection make for Christians? (Y6)

In PSHE, we will be focusing on the topics of Keeping Myself Safe and Rights and Responsibilities

PE

In our PE sessions, we will be learning the skills of gymnastics and racket skills. PE lessons will be on Thursday afternoons with Pro-coaching. Please remember to come to school in your PE kit on PE days.

English Vocabulary Yr 5/6

- Paragraphs
- Proper nouns
- Pronouns
- Expanded noun phrase
- Expanded noun phrase with a modifying preposition
- Fronted adverbial for time, place or cause (followed by a comma)
- 'ing' sentence starter
- Power of three sentence
- Compound sentence (two independent clauses linked with a conjunction)
- Subordinate clause (a clause which doesn't make sense on its own - could be a fronted adverbial with a comma, drop-in clause or at the end of a sentence)
- Simile
- Present perfect tense (he has gone...)
- Determiners
- a / an
- apostrophe for possession
- apostrophe for contraction
- inverted commas for speech
- morphology
- etymology
- relative clause
- modal verbs
- brackets and dashes for parenthesis
- semi-colons and colons
- bullet points

<u>Multiplication and division</u>	<u>Fractions</u>	<u>Decimals</u>
Multiply, groups of, lots of, times, exchange, divide, share, remainder, product, multiple, factor, dividend, divisor. Prime numbers, prime factors, common factors, long multiplication, square numbers, cubed numbers	Tenths, decimal equivalence, hundredths, convert proper fractions, improper fractions, decimal point	Tenths, Hundredths, Decimal tenths, Decimal hundredths, Decimal equivalents, rounding, Decimal point, Two decimal places, Three decimal places, Thousandths, Percentages

