Year 5 Autumn Topic Web

Geography: My Communities
We will be exploring the different communities we are part of locally, nationally and globally. We will be working as geographers to explore human and physical processes, through fieldwork, maps, atlases, globes and aerial photographs. In outdoor learning, we will also be using and creating maps, exploring grid references and OS map symbols.

Art - Exploring Identity
Creating mixed media layered portraits.

DT - Cooking and nutrition
Our DT focus will be exploring, tasting and making bread – this may be done using outdoor cooking as well.

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 to explore the country of France.

Science
We will be working scientifically and investigating:
Animals including humans: we will be revising the work covered in Year 3 and 4 and finding out about the circulatory system within the human body. We will also be recapping the RSE work from the summer term on how humans change as they age.
Evolution and inheritance: finding out how characteristics are passed from one generation to the next and how species have adapted to suit their environments.

Science Vocabulary
Circulatory system, heart, blood vessels, oxygenated, deoxygenated, drug, alcohol, nutrients, plasma, blood cells, platelets, evolution, adaptation, inheritance, genes, DNA, variation, fossilisation, offspring.

Computing
In Computing, we will be building our knowledge of programming 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 be focusing on these big questions:

Year 3/4	Year 5/6
	God - What does it mean if God is holy and loving?
Creation and fall - What do Christians learn from the Creation story?	Creation and Science, conflicting or complimentary?
People of God - What is it like to follow God?	How can following God bring freedom and justice?

In PSHE, we will be focusing on the topics of Me and My Relationships and Valuing Difference.

PE
In our PE sessions, we will be learning the skills of invasion games and target games on Thursday afternoons with Pro-coaching.

English
Talk for Writing – Using different authors we will develop story writing using Talk for Writing.
Non-fiction writing - we will look at instruction writing linking to our topic and explanations linked to our science work on Animals including humans.
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.

Geography Vocabulary
County, region, sustainable, human process, physical process, Topographical feature, human feature, physical feature

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

Place Value	Addition and subtraction	Multiplication and division	Length, Perimeter and Area
Millions	Column addition	Multiple	Metre
Hundred thousands	Column subtraction	Factor pairs	Kilometre
Ten thousands	Exchange	Factor	Perimeter
Greater than	Estimate	Times tables	Length
Less than	Inverse operation	Multiply	Width
Order	Solve problems	Divide	Rectangle
Compare	Number facts	Fact family	Rectilinear
More		Regrouping	Dimensions
Less			Regular
Partition			Irregular
Digit			Compound
Numeral			Inch
Negative numbers			Feet
Roman numerals			yards

Maths Year 5

Place Value	Addition and subtraction	Multiplication and division	Length, Perimeter and Area
Read, write, order and compare numbers to at least 10,000 and determine the value of each digit. I can count forwards or backwards in steps of power of 10 for any given number up to 100 0000. I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. I can round any number up to 100 000 to the nearest 10, 100, 1000, 10 000, and 100 000. I can solve problems and practical problems that involve all of the above. I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). I can add and subtract numbers mentally with increasingly large numbers. I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	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. 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 multiplication and division, including scaling by simple fractions and problems involving simple rates.	I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). I can understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. I can calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

Times tables will continue to be practised regularly and mental arithmetic skills will be introduced