Pennington Long Term Plan for Year 4

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Electricity & Sound Whizz Bang!	Ancient China	Saxons & Vikings (Invaders & Settlers)	States of matter	Living things & their habitats	Animals including humans
Text for English **Class Reader**	Gorilla by Anthony Browne A World Full of Animals Stories by Angela McAllister	Leon and the place between by Graham Baker-Smith The Train to Impossible Place by PG Bell	Escape From Pompeii by Christina Balit Pompeii: A Roman Girl's Diary by Sue Reid	When the Giant stirred by Celia Godkin Ariki and The Island of Wonders by Nicola Davies	Where the Forest Meets the Sea by Jeannie Baker & 100 facts Rainforests by Miles Kelly Journey to the River Sea by Eva Ibbotson	Blue John by Berlie Doherty Clockwork by Phillip Pullman or alternative Berlie Doherty novel
English Writing outcomes **Greater depth**	Fiction: fantasy story Re-tell the story from dad's viewpoint or include speech	Recount /diary Recount /diary from a different POV	Fiction: historical narrative from character's point of view Write from the POV of the captain	Fiction: adventure story from POV of the boy Write from the POV of the God	Information board for a rainforest exhibition Include an interactive element	Letters Explanation – about cave formation Use explanation with an element of persuasion
Word		Use Standard English forms for verb inflections Recognise the grammatical difference between plural and possessive 's'	Use Standard English forms for verb inflections		Recognise the grammatical difference between plural and possessive 's'	
Sentence	Expand noun phrases by the addition of modifying adjectives, nouns and prepositional phrases Use fronted adverbials	Extend the range of sentences with more than one clause by using a wider range of conjunctions including when, if, because, although		Expand noun phrases by the addition of modifying adjectives, nouns and prepositional phrases		Build a varied and rich vocabulary and an increasing range of sentence structures
Text	Organise paragraphs around a theme (to organise and sequence more extended narrative	Build a varied and rich vocabulary	Organise paragraphs around a theme (using fronted adverbials to introduce or connect	Choose nouns or pronouns appropriately for clarity and cohesion	Build a varied and rich vocabulary Use paragraphs to organise information and ideas around a	Use paragraphs to organise information and ideas around a theme Recap: Variety of verb forms used

	structures) Choose nouns or pronouns appropriately for clarity and cohesion and to avoid repetition		paragraphs) Recap: Variety of verb forms used correctly and consistently including the progressive and the present perfect forms	and to avoid repetition	theme Propose changes to grammar and vocabulary to improve consistency, including the accurate use of pronouns	correctly and consistently including the progressive and the present perfect forms
Punctuation	Use commas after fronted adverbials Recap: Use inverted commas for direct speech	Indicate possession by using the possessive apostrophe with plural nouns	Use and punctuate direct speech (using dialogue to show the relationship between characters)	Use and punctuate direct speech Use commas after fronted adverbials	Indicate possession by using the possessive apostrophe with plural nouns.	
MATHS	Big Maths CLIC Counting read 3d numbers partition a 2dp number understand 4d numbers order and compare numbers beyond 1000 identify, represent and estimate numbers round any number to the nearest 10, 100 or 1000 count in multiples Learn Its The 6 Fact Challenge 6X6, 7X6, 9X6, 7X7, 9X7, 9X9 It's Nothing New add thousands know half of 300, 500, 700, 900 find the missing piece to 1000 divide multiples of 10 by 10 multiply whole numbers by 100 Calculation solve 3d + 3d subtract with 3 digit numbers solve any 1d x 1d do any Smile Multiplication combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables) Column Methods solve any 3d + 3d solve any 4d - 2d or 3d solve a 2d x 1d solve 2d ÷ 1d (using x2, 3, 4, 5) no remainders		Big Maths CLIC Counting 0.1s / 0.2s / 0.5s / 0.25s | 0.2s, 0.5s, 0.25s can even count along when there are no lines Learn Its 14 11x table It's Nothing New add tenths know half of 3, 5, 7, 9 as decimals divide whole numbers by 10 or 100 giving decimal answers find the effect of dividing a one- or two-digit number by 10 and 100, tenths and hundredths Calculation solve any 3d + 3d subtract with 3 digit numbers solve any 1d x 2d combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables) Column Methods solve any 4d + 2d / 3d		Big Maths CLIC Counting compare numbers up to two decimal places round decimals with two decimal places to the nearest whole number and to one decimal place Tenths / Fifths / Halves / Quarters | 1/5s count along when there are no lines Learn Its 15 12x table recall multiplication and division facts for multiplication tables up to 12 × 12 It's Nothing New halve any 2d number halve any 3d number know when to add 2 multiples together recognise and use factor pairs and commutativity in mental calculations identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Calculation solve any 3d + 3d as money solve 3d - 2d use a Tables Fact to find a division fact (x6, 7, 8, 9) use a Tables Fact to find a division fact (with remainders) (x6, 7, 8, 9) combine 2 or more Tables Facts to solve division (x6, 7, 8, 9) (with remainders)	

Shape
find symmetry when shapes are in different orientations
know 'The Triangle Family'
make 3D shapes
use simple grid references

Amounts
calculate to find the perimeter
centimetres and metres
know my kilometre Learn It: 1km = 1000m
convert kilometres to metres
use decimal notation for money
understand that the area is the amount of space inside
know that we measure temperature in degrees Celsius
calculate the number of days
convert periods of time
solve problems involving converting from hours to minutes;
minutes to seconds; years to months; weeks to days
convert time from 24 hour clock to analogue
compare, order and sort angles

Fractions
use equivalence to find any simple fraction
find fractions of amounts using my tables (2 or more parts)
compare and order fractions
add and subtract fractions with the same denominator (beyond 1)
add and subtract fractions with the same denominator

Explaining Data
read timetables
track my own Big Maths Beat That! scores with a line graph

Shape
know 'The Quadrilateral Family'
can make 3D shapes
can provide coordinates for a given point
locate a point using given coordinates

Amounts
convert kilometres to metres
convert kilograms to grams
use a range of thermometers to measure the temperature
read negative temperatures

Fractions
round numbers with 1dp
round decimals with one decimal place to the nearest whole number

Explaining Data
calculate from timetables
use two variables to read timetables

Column Methods
solve any 4d + 4d
solve any 4d - 4d
solve 2d ÷ 1d with no remainders
solve a 3d ÷ 1d) with no remainders
solve a 4d ÷ 1d no remainders

Shape
recognise a line of symmetry even when it does not dissect the shape
draw lines to the nearest millimetre
sort polygons quadrilaterals

Amounts
measure and record distances to the nearest millimetre
express perimeter through algebra
convert kilograms to grams
measure and record capacities to the nearest 50ml, and convert to litres
convert litres to millilitres
understand and use degrees Celsius
calculate time gaps within time
read Roman numerals to 100

Fractions
solve problems involving fractions
count in fractions of any denominator
multiply unit fractions (beyond 1)
simplify fractions using my tables
investigate increasing shapes by a given proportion

Explaining Data
explain data from a wide variety of representations
solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
draw a bar chart with continuous data
explain a range of simple line graphs

SCIENCE	Electricity & Sound Identify electrical appliances. Construct simple circuits. Make/use switches. Conductors/Insulators Sounds/Vibrations Sounds travel Pitch & volume			States of Matter Recognising – Solids, liquids & gas Heating & cooling Solids, liquids, gas Changes of state Solids, liquids, gas Water Cycle	Living Things & Habitats. Grouping living things Classification keys Environmental Changes and dangers	Animals including Humans Digestive system Human Parts and functions Teeth types and functions Food chains Identifying producers, predators and prey.
RELIGIOUS EDUCATION	Creation Explore creation stories.	The Church's Year. Investigate stories, symbols, customs, colours and beliefs associated with ceremonies in the Christian calendar.	Islam Research the Muslim calendar	Easter Explore the importance of the season of Lent	Parables Stories Jesus told and what they mean today.	Rites of passage. Research traditions associated with rites of passage.
CHRISTIAN VALUES/PSHE	Trust	Forgiveness	Koinonia	Thankfulness	Endurance	Compassion
ART AND DESIGN Kapow	Formal elements of art Exploring texture and pattern	Art and design skills Developing: design, drawing, craft, painting skills	Every picture tells a story Analysing works of art		Sculpture Learning about the works of inspirational sculptors	
COMPUTING Purple Mash	Coding To explain an algorithm is a set of instructions to complete a task	Spread sheets To be able to navigate around a spread sheet	Logo To manipulate instructions to create common shapes using repeat functions	Animation To know, understand and use the onionskin animation tool	Effective searching To use search engines to provide helpful information to support learning	Hardware Investigators Children recognise the main component parts of hardware which allow computers to join and form a network
DESIGN AND TECHNOLOGY Kapow	Electrical Systems Develop a new functional torch design.	Mechanical Systems Design and make a car with a working slingshot mechanism	Digital world Explore what is meant by mindfulness	Food Adapt an existing biscuit recipe	Structures Design and create a stable, decorated pavilion	Textiles Make a fabric book sleeve with a fastening
GEOGRAPHY		Settlements and land use. Economic activity & trade links. Map reading Countries of the world.	Settlements and land use Map reading Countries of the world. Focus Europe.	Water Cycle Residential Visit		Use field work to observe - Map of the school Navigating & Orienteering Map reading

						8 compass points Sketch maps & plans
HISTORY		Ancient China The achievements of the earliest civilizations. Dynasties Shang Zhou Qin Han Ming Where and when these civilizations appeared.	Saxon & Vikings British settlement by the Anglo Saxons and Scots. Viking & Anglo Saxon struggle for the kingdom of England to 1066			
French Kapow	Portraits- describing in French	Clothes – Getting dressed in France	French numbers, calendars and birthdays	French weather and the water cycle	French food	French and the Eurovision song contest
MUSIC Charanga	Mama Mia learning to sing, play, improvise and compose	Glockenspiel Stage 2 exploring and developing playing skills	Stop! Rap interrelated dimensions of music	Lean on me Soul/ Gospel Listen & Appraise	Blackbird Listen, Appraise, Perform	Reflect, Rewind, Replay Improvisation using voices and instruments
PHYSICAL EDUCATION	Hockey	Gymnastics	Netball	Tennis	Athletics	Cricket & Rounders.
Family Days		Christmas Craft Day				Penningtonbury Festival (Music and Arts)
VISITS/VISITORS				Residential	Big Sing	
National / International Events		Halloween Guy Fawkes Night Remembrance Day Armistice day Children in Need St Andrew's Day(Scotland)	Chinese New Year Burn's Night	St David's Day (Wales) Commonwealth Day St Patrick's Day (Ireland) April Fool's Day	St George's Day (England) Ascension Day Pentecost	Father's Day Wimbledon
Local Events	Ulverston Lantern Festival, Apple Day at Ford Park, Ulverston Canal/ Anchor Festival	Dickensian Festival	Pantomime at the Coronation Hall.	Cumbria Music Festival, Easter Egg Canal Trail, Eggs rolling on Hoad Hill, St Georges Pageant, Ulverston Walkfest, Flag Fortnight	Ulverston Taste Cumbria Food Festival, Printfest	International Music Festival at the Another Fine Fest Ulverston Open Gardens (Ulverston in Bloom) North Lonsdale Show

Church/ Religious Events	Harvest	Advent Christmas (Nativity & Christingle)	St Valentine's Day	Shrove Tuesday Ash Wednesday (Easter Service) Mother's Day		Summer International Buddist Festival at Conishead Priory