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 !)	States of matter	Living things & their habitats	Animals including humans
ENGLISH Reading and Writing Genres	Stories from, Other cultures Imaginary worlds Issues Character & Setting descriptions	Play script Dictionary & Thesaurus Classic Poetry	Dairy & Biography Newspaper & Magazine reports	Modern poetry Range of forms List poetry Haiku Cinquain	Reports & Recounts Instructions & Explanations	Myths & Legends Information texts
Books (Fiction and Non Fiction)	The Firework Maker's daughter.	The Witches (play)	The Big Bazoohley	Into the Forest	Firebird	The Wolf's Footprints
Grammar	Verbs, adverbs, Adverbs & adverbials Contraction apostrophes Coordinating & subordinating conjunctions Exclamation marks/question marks		Third & first person Commas Dialogue in narrative. Possessive apostrophes Inverted commas for dialogue		Fronted adverbials and commas Prepositions Parenthesis	
Spelling	Prefix- mis,un,in,dis,auto,inter Word ending – sure Suffix – ly Words with ay – eigh,ei,ey Word ending – ous,sion,		Sounds – sc que,gue Adding – ir, ion,		Special focus – ou, homophones, Possessive apostrophes with plurals.	

Handwriting	Copy writing. Handwriting uses	High frequency word practice. Development of spelling patterns.	Development of personal style. Speed writing practice.
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 6s count in 7s count in 9s count in multiples of 6, 7, 9, 25 and 1000 1s / 2s / 5s / 25s | 25s 10s / 20s / 50s / 250s | 250s 100s / 200s / 500s / 2500s | 2500s 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 write Smile Multiplication Fact Families complete a full Coin Card find Mully using 10 lots and a Tables Fact Calculation solve 3d + 3d	Big Maths CLIC Counting read 3d numbers partition a 2dp number understand 1dp numbers round decimals with one decimal place to the nearest whole number 6. 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. x: 11x table It's Nothing New add tenths know half of 3, 5, 7, 9 as decimals find the missing piece to 1000 multiply whole numbers by 100 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, identifying the value of the digits in the answer as ones, tenths and hundredths write Smile Multiplication Fact Families know when to add 2 multiples together find Mully using 10 lots and a Tables Fact Calculation solve any 3d + 3d subtract with 3 digit numbers	Big Maths CLIC Counting read 3d numbers partition a 2dp number understand 2dp numbers compare numbers with the same number of decimal places 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. x: 12x table recall multiplication and division facts for multiplication tables up to 12 × 12 It's Nothing New add tenths halve any 2d number find the missing piece to 1000 multiply whole numbers by 100 divide whole numbers by 10 or 100 giving decimal answers write Smile Multiplication Fact Families halve any 3d number know when to add 2 multiples together find Mully using Smile Multiplication find multiples recognise and use factor pairs and commutativity in mental calculations identify multiples and factors, including finding all factor pairs

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) with no remainders in the answer

Shape
find symmetry when shapes are in different orientations
identify lines of symmetry in 2-D shapes presented in different orientations
know 'The Triangle Family'
make 3D shapes
use simple grid references

Amounts
calculate to find the perimeter
find the perimeter in a variety of 2D shapes
measure and calculate the perimeter of a rectilinear figure
(including squares) in centimetres and metres
know my kilometre Learn It: 1km = 1000m
convert kilometres to metres
Convert between different units of measure
[for example, kilometre to metre; hour to minute]

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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
solve any 4d - 2d or 3d
solve any 2d x 1d
solve 2d ÷ 1d (using x2, 3, 4, 5) with no remainders in the

Shape
find symmetry when shapes are in different orientations
know 'The Quadrilateral Family'
can make 3D shapes
can provide coordinates for a given point
locate a point using given coordinates
describe positions on a 2-D grid as coordinates in the first quadrant
use x and y coordinates to find points
explain the difference between grid references and coordinates
create my own first quadrant
create my own first quadrant and plot given points

Amounts
convert kilometres to metres
convert kilograms to grams
use decimal notation for money
compare the areas of different shapes by accurately
counting squares and part squares
use a range of thermometers to measure the temperature
read negative temperatures
find negative temperatures by counting

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of a number, and common factors of two numbers

Calculation
solve 3d + 3d as money
solve any 3d + 3d as money
solve 3d - 2d
solve any 1d x 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)
combine 2 or more Tables Facts to solve division (with remainders) (x6, 7, 8, 9)

Column Methods
solve any 4d + 4d
add and subtract numbers with up to 4 digits using the
formal written methods of columnar addition and subtraction where appropriate
solve any 4d - 4d
solve any 3d x 1d
multiply two-digit and three-digit numbers by a one-digit number using formal written layout
solve 2d ÷ 1d (using any table) with no remainders in the answer
solve a 3d ÷ 1d (using any table) with no remainders in the answer
solve a 4d ÷ 1d (using any table) with no remainders in the answer

Shape
recognise a line of symmetry even when it does not dissect the shape
complete a simple symmetric figure
draw lines to the nearest millimetre

measure and record mass to the nearest 5g	understand and use degrees Celsius	with respect to a specific line of symmetry sort polygons quadrilaterals
convert kilograms to grams	convert periods of time	by side number and identify specific triangles
Convert between different units of measure	convert time from 24 hour clock to analogue	and compare and classify geometric shapes,
[for example, kilometre to metre; hour to minute]	compare, order and sort angles	including quadrilaterals and triangles, based on
use decimal notation for money	**Fractions**	their properties and sizes
understand that the area is the amount	use equivalence to find any simple fraction	make 3D shapes
of space inside	find fractions of amounts using my tables (2 or	draw a simple 2D shape from given coordinates
a 2D shape and I can count squares to	more parts)	plot specified points and draw sides to complete
find it	round numbers with 1dp	a given polygon
find the area of rectangles by counting	round decimals with one decimal place to the	describe the pattern of coordinates
squares	nearest whole number	move a point horizontally by a specified
compare the areas of different shapes	know all of my tables as fractions Learn Its	distance
by counting squares	multiply unit fractions (within 1)	move a point vertically by a specified distance
find the area of rectilinear shapes by	simplify fractions using my tables	describe movements between positions as
counting squares	increase measures by a given proportion	translations of a given unit to the left/right and
compare the areas of different shapes	**Explaining Data**	up/down
by accurately	calculate from timetables	move a point horizontally and vertically
counting squares and part squares	use two variables to read timetables	**Amounts**
know that we measure temperature in	use two variables to read timetables and then	measure and record distances to the nearest
degrees Celsius	calculate	millimetre
calculate the number of days	find how many more (or fewer) than a given	express perimeter through algebra
convert periods of time	value shown on	convert kilograms to grams
Convert between different units of	the horizontal axis (with continuous data)	use decimal notation for money
measure	draw a bar chart with continuous data	measure and record capacities to the nearest
[for example, kilometre to metre; hour	interpret and present discrete and continuous	50ml, and convert to litres
to minute]	data using	convert litres to millilitres
solve problems involving converting from	appropriate graphical methods, including bar	Convert between different units of measure
hours to minutes;	charts and time graphs	[for example, kilometre to metre; hour to
minutes to seconds; years to months;	solve comparison, sum and difference problems	minute]
weeks to days	using	understand and use degrees Celsius
convert time from 24 hour clock to	information presented in bar charts,	calculate time gaps within an hour (5 min)
analogue	pictograms, tables and other graphs	calculate time gaps across an hour (5 min)
read, write and convert time between	explain a range of simple line graphs	calculate time gaps across several hours (5 min)
	interpret and present discrete and continuous	read Roman numerals to 100
	data	
	using appropriate graphical methods, including	
	bar charts and time graphs	

analogue and digital 12- and 24-hour clocks

compare, order and sort angles

identify acute and obtuse angles and compare

and order angles up to two right angles by size

Fractions

use equivalence to find any simple fraction

find fractions of amounts using my tables (2 or more parts)

compare and order fractions with different denominators

know all of my x3, x4 and x8 tables as fractions Learn Its

add and subtract fractions with the same denominator (beyond 1)

add and subtract fractions with the same denominator

use my calculation skills to add/subtract fractions that make a whole number

solve problems involving increasingly harder fractions

increase measures by a given proportion

Explaining Data

read timetables

 track my own Big Maths Beat That! scores with a line graph

Dangerous Maths

spot and extend more challenging patterns of shapes

use a two-step function machine

Dangerous Maths

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read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value

use my angle knowledge to help sort polygons (triangles, quadrilaterals and regular/irregular)

Fractions

show a variety of equivalent fractions

recognise and show, using diagrams, families of common equivalent fractions

reword my multiplication and division success as fractions (in context)

use all tables Learn Its to find fractions of amounts

solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

count in fifths

count in fractions of any denominator

count in hundredths

count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten

record my hundredths with decimals too

recognise and write decimal equivalents of any number of tenths or hundredths

read and write decimal numbers as fractions, for example, 0.71 = 71/100

know 1/2 = 0.5, 1/10 = 0.1, 1/4 = 0.25, 3/4 = 0.75, 1/100 = 0.01

recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$

multiply unit fractions (beyond 1)

simplify fractions using my tables

investigate increasing shapes by a given proportion

			solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects 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 Dangerous Maths spot and extend more challenging patterns of shapes describe the function and use a given output to find an input describe algebraically how to always find the perimeter of a rectangle choose my own symbol to represent an unknown number use multi step function machines	
SCIENCE	Electricity & Sound identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery recognise that a switch opens and closes a circuit and associate this with		States of Matter compare and group materials together, according to whether they are solids, liquids or gases observe that some materials change state when they are heated or cooled, and measure or research the temperature at which	Living Things & Habitats. recognise that living things can be grouped in a variety of ways explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment	Animals including Humans describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions

	whether or not a lamp lights in a simple series circuit recognise some common conductors and insulators, and associate metals with being good conductors. identify how sounds are made, associating some of them with something vibrating recognise that vibrations from sounds travel through a medium to the ear find patterns between the pitch of a sound and features of the object that produced it find patterns between the volume of a sound and the strength of the vibrations that produced it recognise that sounds get fainter as the distance from the sound source increases.			this happens in degrees Celsius (°C) identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	recognise that environments can change and that this can sometimes pose dangers to living things.	construct and interpret a variety of food chains, identifying producers, predators and prey.
RELIGIOUS EDUCATION	Creation Listen and respond to a range of views about creation. Share experiences of awe in the natural world.	The Church's Year. Christmas. Light - Jesus as the light of the world. Explore the importance of light at Advent and Christmas.	Islam Use texts, reference books and IT to research the Muslim calendar and in particular Ramadan. Explore the stories, customs, food etc. associated with the festival of Eid-ul-Fitr.	Easter Lent - explore the importance of the season of Lent as a period of preparation. Reflect on the significance of particular days in Lent.	The Church's Year. Investigate stories, symbols, customs, colours and beliefs associated with ceremonies in the Christian calendar .e.g. Lent, Holy week, Easter, Ascension, Pentecost.	Rites of passage. Research traditions associated with rites of passage in the three main religions studied
CHRISTIAN VALUES/PSHE	Trust	Forgiveness	Endurance	Thankfulness	Koinonia	Compassion

ART AND DESIGN		Ancient China Calligraphy <u>Pattern</u> – mark making Terracotta army <u>Form</u> – clay, surface pattern, texture	Saxon & Viking <u>Drawing</u> – shadow, scale, accuracy and proportion. <u>Colour</u> – colour for moodfjords <u>Texture</u> – broaches, helmet, textured art.		Portraits Project. <u>Colour</u> – mix & match colours, flesh tones <u>Printing</u> – pattern, string	Pavement Art <u>Drawing</u> – shadow, scale, accuracy and proportion. <u>Texture</u> <u>Pattern</u> – mark making
COMPUTING	Handling data	Programming	Programming e- safety	Programming Multi media	Handling data Multi media	Technology in our lives e- safety
DESIGN AND TECHNOLOGY		Chinese Vase	Viking Long boat Saxon dagger & sheath			3 D Pavement Art
GEOGRAPHY		Settlements Map reading Countries of the world. Focus Europe.	Settlements Map reading Countries of the world. Focus Europe.	Water Cycle Rivers Residential Visit		Cumbria OS maps Navigating & Orienteering Map reading 8 compass points
HISTORY		Ancient China The achievements of the earliest civilizations.	Saxon & Vikings British settlements by Anglo Saxons & Scots. The Viking & Anglo Saxon struggle for the Kingdom of England to 1066			

LANGUAGES KS2	Listen and respond to spoken language. (inc songs & rhymes) (describe people place & things)		Conversations Ask and answer questions. (speak in sentences) Develop accurate pronunciation and intonation)		Read & show understanding of words. (quizzes & puzzles) Vocabulary Dictionary skills Grammar (Write in sentences)	
MUSIC	Sing & play musically	Play & perform Christmas	Improvise & compose (musical notation)	Listen with attention to details	Play & perform Ulverston Voices	Music appreciation
PHYSICAL EDUCATION	Dance Invasion games	Gymnastics Football	Gymnastics Athletics	Tennis	Athletics Cricket	Cricket & Rounder's.
Family Days	Global Learning	Christian Values Christmas Craft Day	British Values Day	Problem solving day.	Outdoor and Adventure	Penningtonbury Festival (Music and Arts)
VISITS/VISITORS				Residential		
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,	Dickensian Festival	Pantomime at the Coronation Hall.	South Cumbria Music Festival,	Ulverston Taste Cumbria Food Festival, Printfest	International Music Festival at the Coronation Hall,

	Apple Day at Ford Park, Ulverston Canal/ Anchor Festival			Easter Egg Canal Trail, Pasche eggs rolling on Hoad Hill, St Georges Pageant, Ulverston Walkfest, Flag Fortnight		Another Fine Fest (music comedy and street theatre)
Church/ Religious Events	Harvest	Advent Christmas (Nativity and Christingle)	St Valentine's Day	Shrove Tuesday Ash Wednesday (Easter Service) Mother's Day		