

Long Term Plan

Maths

Year 7

Term	Topic Key Learning incl. Cross Curriculum links	NC Links	Culture Capital	Outcomes Assessment
A1	Unit 1 Place Value, Unit 4 Addition and Subtraction Unit 2 Length and Perimeter	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number; recognise the place value of each digit in a three-digit number (hundreds, tens, ones); compare and order numbers up to 1000; add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction; measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml); measure the perimeter of simple 2-D shapes	- Maths relating to real life experiences: Linking addition and subtraction to gaming, football score, cricket scores etc.	Children will be confident with place value in larger numbers. Children will use their knowledge of place value to complete addition and subtraction using written methods and mental methods. Children will answer reasoning questions based on their learning.
A2	Unit 5 Multiplication Unit 6 Division Unit 8 3-D Shape	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental	- Maths relating to real life experiences: Reading times on timetables (trains, buses, cinema etc)	Children will know the 12x12 timetables and be able to use these to answer questions, using written methods to support.

		and progressing to formal written methods; solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects; draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them		Children will recognise 2D and 3D shapes and their properties. They will be able to ask and answer questions based on their learning. Children will know how to calculate the length and perimeter of different shapes. Children will be able to tell the time and answer reasoning questions based on their learning. End of Autumn term test
S1	Unit 9 Place Value Unit 12 Addition and Subtraction Unit 3 Statistics	Identify, represent and estimate numbers using different representations; read and write numbers up to 1000 in numerals and in words; solve number problems and practical problems involving these ideas; add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction; estimate the answer to a calculation and use inverse operations to check answers; interpret and present data using bar charts, pictograms and tables	- Maths relating to real life experiences: Statistics – playing top trump games, stats from football games and gaming.	Children will know and understand negative numbers and numbers will decimals. They will use this learning to answer addition and subtraction, building on from prior learning in Autumn term. They will be able to read graphs and answer questions about the information.
S2	Unit 10 Multiplication Unit 17 Area Unit 11 Division Unit 13 Fractions	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit	- Maths relating to real life experiences: Relating fractions to food. Area to sizes of real life places (e.g football pitches)	Children will use written methods to solve multiplication problems and then to solve the area of shapes. Children will use their multiplication knowledge to solve

		numbers, using mental and progressing to formal written methods; solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects; count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10; recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators		division problems, using a written method. Children will recognise fractions and know how to write fractions. They will answer reasoning questions based on their learning. End of Spring term test
Su1	Unit 20 Place Value Unit 14 Addition and Subtraction and Money Unit 18 Statistics Unit 22 Multiplication and Division and Measures	add and subtract amounts of money to give change, using both £ and p in practical contexts; solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. compare durations of events [for example to calculate the time taken by particular events or tasks].	- Maths relating to real life experiences: Going out to the shop, spending money and working out change	Children will use their prior learning from previous terms to solve money problems, using addition and subtraction. Children will continue to develop their understanding of graphs and how to create their own graphs. Children will be able to use multiplication and division written methods

Su2	Unit 27 Place Value Unit 21 Addition and Subtraction Unit 25 2-D and 3-D Shape Unit 19 Time	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks; estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight; know the number of seconds in a minute and the number of days in each month, year and leap year	- Maths relating to real life experiences: Relating measures to carers (builders, engineers etc)	Children will use and understand vocabulary linked to shape and measures Children will be able to solve problems involving shape and measure End of Summer term test End of year 7 assessment
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