



Maths

Year 5 Long Term Overview

Year Group	5	Subject	Maths	Taught in	Autumn
Title	Chapter 1 - Place Value				
Summary	Children explore place value for numbers up to 1,000,000, understanding the value of numbers, how they relate to each other and fit into the number system.				
Key Skills	<ul style="list-style-type: none">- Reading and writing Numbers to 100,000 and 1,000,000- Understand the value of a digit within a number up to 1,000,000- Comparing numbers to 1,000,000- Making number patterns- Rounding numbers to the nearest 100, 1,000 and 10,000				

Year Group	5	Subject	Maths	Taught in	Autumn
Title	Chapter 2 - Whole Numbers: addition and subtraction				
Summary	Children develop their use of formal and mental strategies for addition and subtraction, understanding which operation should be used.				
Key Skills	<ul style="list-style-type: none">- Counting on in multiples of 100, 1,000, 10,000 and 100,000 to add two numbers- Counting back in multiples of 100, 1,000, 10,000 and 100,000 to subtract- Adding within 100,000 and 1,000,000 using column addition- Subtracting within 100,000 and 1,000,000 using column subtraction- Exchange and carry between different columns efficiently- Strategies for mental addition and subtraction				

Year Group	5	Subject	Maths	Taught in	Autumn
Title	Chapter 3 - Whole numbers: multiplication and division				
Summary	Children develop a more conceptual understanding of multiplication and division, using formal strategies to solve problems.				
Key Skills	<ul style="list-style-type: none">- Understand the term multiple and find multiples of a given integer- Finding factors and prime factors of a number using arrays- Finding common factors of two numbers using arrays and finding pairs of factors- Finding prime numbers using arrays- Understand and find square and cube numbers using arrays- Multiplying integers by 10, 100 and 1000- Multiplying a 2, 3 and 4 digit number by a single digit- Multiplying a 3 and 4 digit number by a 2 digit number- Dividing integers by 10, 100 and 1000- Dividing 3 digit and 4 digit numbers by a single digit- Understanding a remainder within a division question- Tables up to 12 x 12				



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Year Group	5	Subject	Maths	Taught in	Spring
Title	Chapter 5 - Graphs				
Summary	Children explore and develop and understanding of different types of tables, timetables and graphs, applying curriculum knowledge in order to problem efficiently.				
Key Skills	<ul style="list-style-type: none">- Retrieve data from a table and use to solve a problem- Read tables involving time and solve time problems using a number line- Read and interpret data from a line graph- Understand how to interpret multiple lines on a line graph				

Year Group	5	Subject	Maths	Taught in	Spring
Title	Chapter 6 - Fractions				
Summary	Children develop a secure understanding of the concept of a fraction and how to manipulate fractions in order to solve fractional calculations.				
Key Skills	<ul style="list-style-type: none">- Understand numerator and denominator- Changing between improper fractions and mixed numbers- Finding equivalent fractions using bar models and counting in multiples- Comparing and ordering fractions with like denominators- Comparing and ordering fractions with unlike denominators.- Comparing and order fractions with mixed and improper fractions- Adding proper fractions, including finding an equivalent fraction for one fraction- Subtracting fractions, including finding an equivalent fraction for one fraction- Subtracting fractions using mixed and improper numbers- Multiplying proper fractions by an integer- Multiplying mixed numbers by an integer- Multiplying mixed numbers by whole numbers- Add and subtract fractions with the same denominator				

Year Group	5	Subject	Maths	Taught in	Spring
Title	Chapter 7 - Decimals				
Summary	Children build links between fraction and decimal equivalents; applying prior calculation knowledge and skills to manipulate and calculate.				
Key Skills	<ul style="list-style-type: none">- Understanding and writing tenths, hundredths and thousandths- Reading and writing decimals up to thousandths- Convert fractions involving tenths, hundredths and thousandths into decimal equivalents- Comparing and ordering decimal numbers up to thousandths- Adding and subtracting decimals using mental and formal methods of calculation- Rounding a two-digit decimal to the nearest tenth- Rounding one and two-digit decimals to the nearest integer				



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Year Group	5	Subject	Maths	Taught in	Spring
Title	Chapter 8 - Percentages				
Summary	Children build links between hundredths and percentages and use equivalent fractions to find a percentage of an amount.				
Key Skills	<ul style="list-style-type: none">- Using a 100 grid to understanding the link between hundredths and percentages- Finding a percentage of an amount using fraction equivalents up to hundredths- Convert fractions to hundredths in order to find a percentage				

Year Group	5	Subject	Maths	Taught in	Spring/Summer
Title	Chapter 9 - Geometry				
Summary	Children develop practical skills for understanding, measuring and drawing angles.				
Key Skills	<ul style="list-style-type: none">- Name the different types of angles and identify their properties- Measuring angles using a protractor- Name angles, using correct angle notation to label.- Investigating angles on a straight line and understand that they sum to 180°- Investigating angles around a point and understand that they sum to 360°- Drawing angles using a protractor- Drawing lines and angles using a protractor and ruler in simple constructions- Describing the properties of squares and rectangles (parallel/perpendicular) and use notation to describe- Investigating angles in squares and rectangles (angles)- Solving problems involving angles in rectangles- Solving problems involving angles- Investigating angles in regular polygons				

Year Group	5	Subject	Maths	Taught in	Summer
Title	Chapter 10 - Position and Movement				
Summary	Children explore translation and reflection in the first quadrant.				
Key Skills	<ul style="list-style-type: none">- Naming and plot points in the first quadrant.- Describing translations of a polygon in the first quadrant- Identify reflections across a vertical or horizontal plane				

Year Group	5	Subject	Maths	Taught in	Summer
Title	Chapter 11 - Measurements				
Summary	Children use different measures to explore length, mass, time and volume and convert between the different units using $\times / 10, 100$ and 1000 .				
Key Skills	<ul style="list-style-type: none">- Converting units of length including decimal representations (mm to cm, cm to m, km to m)- Convert between cm and inches using approximation- Converting units of mass including decimal representations (g to kg)- Convert between lbs and kg using approximation- Converting units of time (months to years, weeks and days, minutes, hours and seconds)- Telling the temperature using a thermometer, including negative numbers- Reading different scale for length, mass, time and temperature.				



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Year Group	5	Subject	Maths	Taught in	Summer
Title	Chapter 12 - Area and perimeter				
Summary	Children explore perimeter of simple rectilinear shapes on squared grids; understanding perimeter as the length around the outside of the shape and the area as the space that the shape occupies.				
Key Skills	<ul style="list-style-type: none">- Finding the perimeter of rectangles and triangles on squared paper- Using scale diagrams to find the perimeter- Calculating the area of a shape by counting squares- Finding the area and perimeter using efficient methods- Calculating the perimeter in scale drawings- Finding the area of a rectilinear shape by multiplying length and width- Calculating area and perimeter in compound shapes.- Estimating the area of irregular shapes using squared paper				

Year Group	5	Subject	Maths	Taught in	Summer
Title	Chapter 13 - Volume				
Summary	Children encounter the volume of cuboids using cm cubes and make links between volume and capacity.				
Key Skills	<ul style="list-style-type: none">- Understanding the volume of solids using cm cubes- Finding the volume of solids using cm cubes- Finding the capacity of rectilinear boxes by counting cubes- Estimating the volume of a cuboid using cubes- Find the volume of a cuboid by multiplying length, width and height.- Converting units of volume				

Year Group	5	Subject	Maths	Taught in	Summer
Title	Chapter 14 - Roman Numerals				
Summary	Children are introduced to Roman Numerals and learn the key values of concepts for representing numbers in this way.				
Key Skills	<ul style="list-style-type: none">- Understand the value of I, V, L, X, C, D, M in Roman Numerals- Writing Roman Numerals to 1000- Writing years in Roman Numerals- Convert decimal numbers into Roman Numerals- Answer word problems involving Roman Numerals				