



St. Patrick's RC Primary School



Mathematics Year 3/4 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				Number Addition and Subtraction				Number: Multiplication and Division			
Spring	Number: Multiplication and Division continued		Measurement: Length, Perimeter, Area.		Y3 Measurement: Mass and Capacity.			Number: Fractions				
					Y4: Number: Decimals							
Summer	Number: Money/Decimals		Measurement: Time			Statistics		Geometry: Properties of shape (including Year 4 position and direction.)		Investigations		



Year 3 – Autumn Overview



	Week 1 - 4 BLOCK 1	Week 5 - 8 BLOCK 2	Week 9 - 12 BLOCK 4
	Number: Place Value	Number: Addition and Subtraction	Number: Multiplication and Division
White Rose Maths Small Steps	<ul style="list-style-type: none"> • Represent numbers to 100. • Tens and ones using addition • Number line to 100 • Hundreds. • Represent numbers to 1,000. • 100s, 10s and 1s (1). • 100s, 10s and 1s (2). • Number line to 1,000. • Find 1, 10, 100 more or less than a given number. • Compare objects to 1,000. • Compare numbers to 1,000. • Order numbers. • Count in 50s. 	<ul style="list-style-type: none"> • Add and subtract 1s • Add a 2-digit and 1-digit number crossing 10 • Subtract a 1-digit number from 2 digits crossing 10 • Add two 2-digit numbers crossing 10 • Subtract a 2-digit number from a 2-digit number crossing 10. • Add and subtract multiples of 100. • Add and subtract 3-digit numbers and ones – not crossing 10. • Add 3-digit and 1-digit numbers – crossing 10. • Subtract a 1-digit number from a 3-digit number – crossing 10. • Add and subtract 3-digit numbers and tens – not crossing 100. • Add a 3-digit number and tens – crossing 100. • Add and subtract 100s. • Spot the pattern – making it explicit. • Add and subtract a 2-digit and 3-digit number – not crossing 10 or 100. • Add a 2-digit and 3-digit number – crossing 10 or 100. • Subtract 2-digit number from a 3-digit number cross the 10 or 100. • Add two 3-digit numbers – not crossing 10 or 100. • Add two 3-digit numbers – crossing 10 or 100. • Subtract a 3-digit number from a 3-digit number – no exchange. • Subtract a 3-digit number from a 3-digit number – exchange. • Exchange answers to calculations. • Check. 	<ul style="list-style-type: none"> • Multiplication using the symbol • Using arrays • 2 times-table • 5 times-table • Making equal groups • Divide by 2 • Divide by 5 • Divide by 10 • Multiplication – equal groups. • Multiplying by 3. • Dividing by 3. • The 3 times-table. • Multiplying by 4. • Dividing by 4. • The 4 times-table. • Multiplying by 8. • Dividing by 8. • The 8 times-table.



Year 3 – Autumn Overview



National Curriculum Link

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| <ul style="list-style-type: none">• Identify, represent and estimate numbers using different representations.• 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.• Read and write numbers up to 1000 in numerals and in words.• Solve number problems and practical problems involving these ideas.• Count from 0 in multiples of 4, 8, 50 and 100. | <ul style="list-style-type: none">• Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens, a three digit number and hundreds.• 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.• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. | <ul style="list-style-type: none">• Count from 0 in multiples of 4, 8, 50 and 100.• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.• Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit 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 objectives. |
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Year 3 – Spring Overview



White Rose Small Steps

Week 1 - 2 BLOCK 1	Week 3-4 BLOCK 2	Week 5 - 8 Block 3	Week 9 - 12 BLOCK 5
Number: Multiplication and Division	Measurement: Length and Perimeter	Measurement: Mass and Capacity	Number: Fractions
<ul style="list-style-type: none"> Consolidate 2, 4 and 8 times tables Comparing statements. Related calculations. Multiply 2-digits by 1-digit (1). Multiply 2-digits by 1-digit (2). Divide 2-digits by 1-digit (1). Divide 2-digits by 1-digit (2). Divide 2-digits by 1-digit (3). Scaling. How many ways? 	<ul style="list-style-type: none"> Measure length (m) Compare lengths Measure length. Equivalent lengths – m & cm. Equivalent lengths – mm & cm. Compare lengths. Add lengths. Subtraction lengths. Measure perimeter. Calculate perimeter. 	<ul style="list-style-type: none"> Compare Mass Compare Volume Temperature Measure mass (1). Measure mass (2). Compare mass. Add and subtract mass. Measure capacity (1). Measure capacity (2). Compare capacity. Add and subtract capacity. 	<ul style="list-style-type: none"> Working with wholes and parts Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit and non-unit fractions Equivalence of a half and 2 quarters Count in fractions. Unit and non-unit fractions. Making the whole. Tenths. Count in tenths. Tenths as decimals. Fractions of a number line. Fractions of a set of objects (1). Fractions of a set of objects (2). Fractions of a set of objects (3). Equivalent fractions (1), Equivalent fractions (2). Equivalent fractions (3). Compare fractions. Order fractions. Add fractions. Subtract fractions.

Year 3 – Spring Overview

National Curriculum Link	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit 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 objectives. 	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2D shapes. 	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). 	<ul style="list-style-type: none"> 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 and use fractions as numbers: unit fractions and non- unit fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions and non- unit fractions with small denominators. Solve problems that involve all of the above. Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]. Solve problems that involve all of the above.
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Year 3 – Summer Overview

	Week 1-2 BLOCK 1	Week 3-5 BLOCK 2	Week 6-7 BLOCK 3	Week 8-10 BLOCK 4	Week 9 - 11 BLOCK 4
	Measurement: Money	Measurement: Time	Statistics	Geometry: Property of Shapes	Investigations
White Rose Maths Small Steps	<ul style="list-style-type: none"> Count money in pounds and pence Pounds and pence. Converting pounds and pence. Adding money. Subtracting money. Giving change. 	<ul style="list-style-type: none"> O'clock and Half past Quarter past and quarter to Months and years. Hours in a day. Telling the time to 5 minutes. Telling the time to the minute. AM and PM. 24 hour clock. Finding the duration. Comparing the duration. Start and end times. Measuring time in seconds. 	<ul style="list-style-type: none"> Make tally charts Draw pictograms Interpret pictograms Pictograms. Bar charts. Tables. 	<ul style="list-style-type: none"> Turns and angles. Right angles in shapes. Compare angles. Draw accurately. Horizontal and vertical. Parallel and perpendicular. Recognise and describe 2D shapes. Recognise and describe 3D shapes. Make 3D shapes. 	All
National Curriculum Link	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts. 	<ul style="list-style-type: none"> 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. Compare durations of events [for example to calculate the time taken by particular events or tasks]. 	<ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables. 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. 	<ul style="list-style-type: none"> Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that two right angles make a half- turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Draw 2-D shapes and make 3-D shapes using modelling materials. Recognise 3-D shapes in different orientations and describe them. 	All

Year 4 – Autumn Overview

	Week 1 - 4 BLOCK 1	Week 5 - 8 BLOCK 2	Week 9 - 12 BLOCK 4
	Number: Place Value	Number: Addition and Subtraction	Number: Multiplication and Division
White Rose Maths Small Steps	<ul style="list-style-type: none"> Numbers to 1,000 100s, 10s and 1s Number line to 1,000 Find, 1, 10, 100 more or less Roman numerals to 100. Round to the nearest 10. Round to the nearest 100. Count in 1,000s. 1,000s, 100s, 10s and 1s. Partitioning. Number line to 10,000. 1,000 more or less. Compare numbers. Order numbers. Round to the nearest 1,000. Count in 25s. Negative numbers. 	<ul style="list-style-type: none"> Add two 3-digit numbers not crossing 10 or 100. Add two 3-digit numbers crossing 10 or 100. Subtract a 3 digit number from a 3 digit number no exchange Subtract a 3 digit number from a 3 digit number exchange Add and subtract 1s, 10s, 100s and 1000s. Add two 4-digit numbers – no exchange. Add two 4-digit numbers – one exchange. Add two 4-digit numbers – more than one exchange. Subtract two 4-digit numbers – no exchange. Subtract two 4-digit numbers – one exchange. Subtract two 4-digit numbers – more than one exchange. Efficient subtraction. Estimate answers. Checking strategies. 	<ul style="list-style-type: none"> Multiply and divide by 3 The 3 times table Multiply 2 digits by 1 digit Divide 2 digits by 1 digit Multiply by 10. Multiply by 100. Divide by 10. Divide by 100. Multiply by 1 and 0. Divide by 1. Multiply and divide by 6. 6 times-table and division facts. Multiply and divide by 9. 9 times-table and division facts. Multiply and divide by 7. 7 times-table and division facts.
National Curriculum Link	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones). Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. 	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12×12. Count in multiples of 6, 7, 9, 25 and 1000. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. 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.

Year 4 – Yearly Overview - Spring

	Week 1 - 2 BLOCK 1	Week 4 BLOCK 2	Week 5 - 8 BLOCK 3	Week 9 - 12 BLOCK 4
	Number: Multiplication and Division	Measurement: Length, Perimeter & Area	Number: Decimals	Number: Fractions
White Rose Maths Small Steps	<ul style="list-style-type: none"> 11 and 12 times-table. Multiply 3 numbers. Factor pairs. Efficient multiplication. Written methods. Multiply 2-digits by 1 –digit. Multiply 3-digits by 1-digit. Divide 2-digits by 1-digit (1). Divide 2-digits by 1-digit (2). Correspondence problems. 	<ul style="list-style-type: none"> Equivalent lengths m and cm Equivalent lengths mm and cm. Add lengths Subtract lengths Measure perimeter Kilometres. Perimeter on a grid. Perimeter of a rectangle. Perimeter of rectilinear shapes What is area? Counting squares Making shapes. Comparing area. 	<ul style="list-style-type: none"> Bonds to 10 & 100 Recognise tenths and hundredths. Tenths as decimals. Tenths on a place value grid. Tenths on a number line. Divide 1 digit by 10. Divide 2 digits by 10. Hundredths. Hundredths as decimals. Hundredths on a place value grid. Divide 1 or 2 digits by 100. 	<ul style="list-style-type: none"> Unit and non-unit fractions Tenths Count in tenths Equivalent fractions Add fractions Subtract fractions Fractions of a set of objects What is a fraction? Equivalent fractions (1) Equivalent fractions (2). Fractions greater than 1. Count in fractions. Add 2 or more fractions. Subtract 2 fractions. Subtract from whole amounts. Calculate fractions of a quantity. Problem solving – calculate quantities.

National Curriculum Link

- Recall and use multiplication and division facts for multiplication tables up to 12×12 .
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
- Recognise and use factor pairs and commutativity in mental calculations.
- Multiply two digit and three digit numbers by a one digit number using formal written layout.
- 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.

- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
- Convert between different units of measure [for example, kilometre to metre].
- Find the area of rectilinear shapes by counting squares.

- Recognise and write decimal equivalents of any number of tenths or hundredths.
- Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
- Solve simple measure and money problems involving fractions and decimals to two decimal places.
- Convert between different units of measure [for example, kilometre to metre].

- Recognise and show, using diagrams, families of common equivalent fractions.
- Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
- 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.
- Add and subtract fractions with the same denominator.

Year 4 – Summer Overview

	Week 1 - 2 BLOCK 1	Week 1 - 2 BLOCK 2	Week 3-5 BLOCK 3	Week 6 – 7 BLOCK 4	Week 8 – 10 BLOCK 5	Week 11 BLOCK 6	Week 12
	Number: Decimals	Measurement: Money	Measurement: Time	Statistics	Geometry: Property of Shape	Geometry: Position and Direction	Investigations
White Rose Maths Small Steps	<ul style="list-style-type: none"> Make a whole. Write decimals. Compare decimals. Order decimals. Round decimals. Halves and quarters. 	<ul style="list-style-type: none"> Convert pounds and pence Add money Subtract money Find change Pounds and pence. Ordering amounts of money. Using rounding to estimate money. Four operations. 	<ul style="list-style-type: none"> Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24-hour clock Hours, minutes and seconds. Years, months, weeks and days. Analogue to digital – 12 hour. Analogue to digital – 24 hour. 	<ul style="list-style-type: none"> Interpret charts. Comparison, sum and difference. Introducing line graphs. Line graphs. 	<ul style="list-style-type: none"> Turns and angles Rights angles in shapes Compare angles Recognise and describe 2-D shapes Horizontal and vertical Identify angles. Compare and order angles. Triangles. Quadrilaterals. Lines of symmetry. Complete a symmetric figure. 	<ul style="list-style-type: none"> Describe position. Draw on a grid. Move on a grid. Describe a movement on a grid. 	All

National Curriculum Link

- Compare numbers with the same number of decimal places up to two decimal places.
- Round decimals with one decimal place to the nearest whole number.
- Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.
- Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths.

- Estimate, compare and calculate different measures, including money in pounds and pence.
- Solve simple measure and money problems involving fractions and decimals to two decimal places.

- Read, write and convert time between analogue and digital 12- and 24-hour clocks.
- Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

- Identify acute and obtuse angles and compare and order angles up to two right angles by size.
- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
- Identify lines of symmetry in 2-D shapes presented in different orientations.
- Complete a simple symmetric figure with respect to a specific line of symmetry.

- Describe positions on a 2-D grid as coordinates in the first quadrant.
- Plot specified points and draw sides to complete a given polygon.
- Describe movements between positions as translations of a given unit to the left/ right and up/ down.

All