Newbold Church of England Primary School

At Newbold we aim to support each other to live, learn and excel together as a Christian community.

"Therefore encourage one another and build each other up," 1 Thessalonians 5:11

Maths Curriculum Map		Autumn	Spring	Summer
	EYFS	**White Rose** **Phase 1-Just Like Me!** Number: Match and Sort, Compare Amounts Measure, Shape and Spatial Thinking: Compare Size, Mass & Capacity Geometry: Exploring Pattern **Phase 2- It's Me 1 2 3!** Number: Representing 1,2& 3, Comparing 1,2,&3, Composition of 1,2,3 Measure, Shape and Spatial Thinking: Geometry: Circles and Triangles, Positional Language **Phase 3- Light and Dark** Number: Representing Numbers to 5, One More and Less Measure, Shape and Spatial Thinking: Geometry: Shapes with 4 sides Measure: Time **Consolidation**	**White Rose** **Phase 4- Alive in 5!** Number: Introducing Zero, Comparing Numbers to 5, Composition of 4&5 Measure: Shape and Spatial Thinking: Compare Mass (2), Compare Capacity (2) **Phase 5- Growing 6,7,8** Number: 6,7,8 ; Making Pairs, Combining 2 Groups Measure, Shape and Spatial Thinking: Length & Height, Time **Phase 6- Building 9&10** Number: 9&10, Comparing Numbers to 10,Bonds to 10 Measure: Shape and Spatial Thinking: Geometry 3D shape, Pattern (2)	**White Rose** **Phase 7- To 20 and Beyond** Number: Building Numbers Beyond 10, Counting Patterns Beyond 10 Measure: Shape and Spatial Thinking: Geometry: Spatial Reasoning (1) Match, Rotate, Manipulate **Phase 8- First Then Now** Number: Adding More, Taking Away Measure, Shape and Spatial Thinking: Spatial Reasoning (2) Geometry: Compose and Decompose **Phase 9- Find My Pattern** Number: Doubling, Sharing and Grouping, Even and Odd Measure, Shape and Spatial Thinking, Spatial Reason (3) Geometry Visualise and Build
	1	Geometry: Shape Recognise and name 3-D shapes, Sort 3-D shapes, recognise and name 2-D shapes, Sort 2-D shapes Number: Place Value Sort objects, count objects, count read and write forwards from any N. 0 – 10, count read and write backwards from any N.0 – 10 Count one more, count one less, Introduce< & > symbols to compare groups, compare groups, order groups of objects ,Order numbers, ordinal numbers (1st,2nd etc) The number- line. Number: Addition & Subtraction Part – Whole Model, addition Symbol, fact families- addition facts Find number bonds for numbers within 10, addition- adding together- Addition adding more, finding a part, Subtraction – taking away how many left? Introducing the subtraction symbol, Subtraction- finding a part, breaking apart, Fact families- the 8 facts, Subtraction- counting back. Measurement: Time Time to the hour, time to the half hour Number: Place Value Count forwards and backwards, write numbers to 20 in numerals & words, Numbers from 11 to 20, tens and ones, count one more and one less, compare groups of objects, Compare numbers, order groups of objects, Order numbers. Measurement: Money Recognising coins, recognising notes, Counting in coins.	Number: Multiplication & Division Count in 10's, make equal groups, add equal groups, Make arrays, make doubles Make equal groups- grouping Make Equal groups- sharing Number: Fractions Find a half, Find a quarter Measurement: Length & Height Compare lengths and heights Measure Length. Measurement: Weight & Volume Introduce weight & mass Measure mass, compare mass Introduce capacity and volume Measure capacity, compare capacity. Number: Place Value Numbers to 50, Tens and ones, represent numbers to 50, one more, one less, compare objects within 50, compare numbers within 50, Order numbers within 50, count in 2's, count in 5's. Geometry: Shape Revise autumn shape	Number: Addition & Subtraction Add by counting on Find and make number bonds Add by making 10 Subtraction not crossing 10, Subtraction crossing 10 Related facts Compare number sentences. Geometry: Position & Direction Describe turns Describe position Number: Place Value Counting to 100 Partitioning numbers Comparing numbers Ordering numbers One more, one less Measurement: Money Revise Autumn Money Measurement: Time Revise Autumn time, Writing time, comparing time.

Newbold Church of England Primary School

At Newbold we aim to support each other to live, learn and excel together as a Christian community.

"Therefore encourage one another and build each other up," 1 Thessalonians 5:11

Maths Curriculum Map		Autumn	Spring	Summer
	2	**Geometry: Position & Direction** Recognise 2-D & 3-D shapes, count sides on 2-D shapes, draw 2-D shapes, lines of symmetry, sort 2-D shapes, make patterns with 2-D shapes, count faces on 3-D shapes, count edges on 3-D shapes, sort 3-D shapes, make patterns with 3-D shapes. **Number: Place Value** Counting forwards and backwards within 20 Tens and ones within 20, Counting forwards & backwards within 50 Tens and Ones within 50, tens and ones within 50 Count objects to 100 read and write numbers in numerals and words, Represent numbers to 100, tens and ones with part- whole model Tens and ones using addition, **Number: Addition & Subtraction** Fact families, add and subtraction bonds to 20, check calculations, compare number sentences, related facts, bonds to 100 (tens), add and subtract 1's ,10 more,10 less, add & subtract 10's, add by making 10, add a 2-digit and 1- digit number crossing 10 Subtraction crossing 10, add two 2 -digit numbers not crossing ten, add ones add 10's ,add two 2-digit number crossing ten, add ones, add 10's, subtract a 2-digit number from a 2-digit number not crossing 10, subtract a 2-digit number from a 2-digit number crossing 10, find and make number bonds, bonds to 100 (10's and 1's) add three 1-digit numbers. **Measurement: Time** O'clock and half past, quarter to and past, telling the time to 5 mins **Number: Place Value** Use a place value chart, compare objects, compare numbers, order objects and numbers , count in 2's, 5's, 10's, 3's. **Measurement: Money** Recognising coins, recognising notes, counting in coins & notes, select money, make the same amount, compare money, find the total, find the difference, find change, two step problems.	**Number: Multiplication & Division** Make equal groups, add equal groups, make arrays, recognise equal groups, make equal groups, add equal groups, multiplication sentences using X, multiplication sentences from pictures, use arrays, make doubles,2 times tables, 5 times table, 10 times tables, make equal groups- sharing, make equal groups-grouping, divide by 2, odd and even numbers, divide by 5, divide by 10. **Number: Fractions** Make equal parts, recognise a half, recognise a quarter, recognise a third, find a third, unit fractions, non-unit fractions, equivalent of half and two quarters, find three quarters, count in fractions. **Measurement: Length & Height** Measure length, compare lengths, order lengths, four operations with lengths. **Measurement: Mass, Capacity, Temperature** Compare mass, measure mass in grams, measure mass in Kilograms, compare volume, millilitres, litres, temperature. **Number: Problem solving** **Geometry: Shape** Revise autumn shape	**Statistics** Make tally charts, draw pictograms (1-1) Interpret and draw pictograms (2,5,10), interpret pictograms (2,5,10) Block diagrams. **Geometry: Position & Direction** Describing movement, describing turns, describing movement & turns, making patterns with shape. **Number: Problem solving** **Measurement: Money** Revise autumn money **Measurement: Time** Revision of autumn time, hours and days, find durations of time, compare durations of time.
	3	**Number: Place Value** Represent numbers to 100, Tens and ones using addition, hundreds, represent numbers to 1000, 100s, 10s & 1s, number line to 1000, find 1,10,100 more or less than a given number, compare objects to 1000, order numbers, count in 50's. **Number: Addition & Subtraction** Add & subtract a 2-digit and 3-digit numbers- not crossing 10 or 100, add a 2-digit number and 3-digit numbers-crossing 10 or 100, subtract a 2-didit number from a 3-digit number- crossing 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-didgit number- no exchange, subtract a 3-digit number from a 3-digit number- exchange. Estimate answers to calculations, check answers. **Measurement: Length & Perimeter** Measure length, Measure length (m), equivalent lengths m & cm, equivalent lengths- mm & cm, compare lengths, add lengths, subtract lengths, measure perimeter, calculate perimeter. **Number: Multiplication & Division** Multiplication, multiplication using the symbol, using arrays, 2 times table, 5 times table, make equal groups -sharing, make equal groups,	**Number: Multiplication & Division** Consolidate 2,4 and 8 times-tables, comparing statements, related calculations, multiply 20digits by 1-digit, divide 2 digits by 1-digit, scaling, how many ways? **Number: Fractions** Make equal parts, recognise a half, find a half, recognise a quarter, find a quarter, recognise a third, find a third, unit fractions, non-unit fractions, equivalent of a half and two quarters, count in fractions. **Number Fractions** Making the whole, tenths, count in tenths, tenths as decimals, fractions on a number line, fractions of a set of objects, equivalent fractions, compare fractions, order fractions, add fractions, subtract fractions. **Measurement: Money** Count money (pence) count money (pounds), pounds and pence, convert pounds and pence, Add money, subtract money, give change.	**Statistics** Make tally charts, draw pictograms (2,5,10) Interpret pictograms (2,5,10) Pictograms, bar charts, tables. **Measurement: Time** Months and years, hours in a day, telling the time to 5 minutes, telling the time to one minute, using a.m. and p.m., 24-hour clock, finding a duration, comparing durations, start and end times, measuring time in seconds. **Geometry: Properties of shape** 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 **Measurement: Mass & Capacity** Measure mass, compare mass, add and subtract mass, measure capacity, compare capacity, add and subtract capacity.

Maths Curriculum Map		Autumn	Spring	Summer
		grouping, divide by 2, divide by 5, divide by 10, multiply by 3, the 3 times table.		
	4	**Number: Place Value** **Represent numbers to 1000, 100s, 10s, and 1s, number line to 1000, round to nearest 10, round to nearest 100, count in 1000, 1000s, 100s, 1s, partitioning, number line to 10,000, find 1, 10, 100 more or less, 1000 more or less, compare numbers. Order numbers, round to nearest 1000, count in 25's, negative numbers, roman numerals to 100.** **Number: Addition & Subtraction** **Add & subtract 1s, 10s, 100s and 1000s, add two 3-digit numbers not crossing 10 or 100, add two 4-digit numbers -no exchange, add two 3-digit numbers- crossing 10 or 100, add 4-digit numbers- one exchange, add two 4-digitnumbers-more than one exchange, subtract a 3-digit number from a 3-digit number- no exchange, subtract two 4-digit numbers- no exchange, subtract a 3-digit number from a 3-digit number- exchange, subtract two 4-digit numbers- one exchange, subtract two 4-digit numbers- more than one exchange, efficient subtraction, estimate answers, checking strategies.** **Measurement: Length & Perimeter** **Equivalent lengths m and cm, equivalent lengths mm and cm, Kilometres, add lengths, subtract lengths, measure perimeter, perimeter on a grid, perimeter on a rectangle, perimeter of rectilinear shapes.** **Measurement: Area** **What is area? counting squares, making shapes, comparing area.** **Number: Multiplication & Division** **Multiply by 10, Multiply by 100, divide by 10, divide by 100, multiply by 1 and 0, divide by 1 and it's self, multiply and divide by 3, the 3 times table, multiply and divide by 6, 6 times tables 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.**	**Number: Multiplication & Division** **11 & 12 times tables, 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, divide 3 digits by 1 digit, correspondence problems.** **Number: Fractions** **Unit and non- unit fractions, what is a fraction? Tenths, count in tenths, equivalent fractions, fractions greater than 1, count in fractions, add fractions, add two or more fractions. Subtract fractions, subtract 2 fractions, subtract from whole amounts, fractions of a set of objects, calculate fractions of a quantity, problem solving- calculate quantities.** **Number: Decimals** **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. Make a whole, write decimals, compare decimals, order decimals, round decimals, halves and quarters.** **Measurement: Money** **Pounds and pence, ordering money, estimating money, four operations.**	**Statistics** **Interpret charts, comparison, sum, difference, introducing line graphs, line graphs.** **Measurement: Time** **Hours, minutes, seconds, years, months, weeks and days, Analogue 12 hour, analogue 24 hours.** **Geometry: Properties of shape** **Identify angles, compare and order angles, triangles, quadrilaterals, lines of symmetry, complete a symmetric figure.** **Geometry: Position & Direction** **Describe a position, draw on a grid, move on a grid, describe a movement on a grid.** **Measurement: Mass & Capacity** **Revision: Measure mass, compare mass, add and subtract mass, measure capacity, compare capacity, add and subtract capacity.**
	5	**Number: Place Value** **1000, 100s, 10s, and 1s, numbers to 10,000, round to nearest 10, round to nearest 100, round to nearest 10,100 and 1,000, numbers to 100,000, compare and order numbers to 1000,000, round numbers within 1000,000, numbers to a million. Count in, 1000,000s, 10,000, 1000s, 100s, 10's, 1s, compare and order numbers to one million, round numbers to one million, negative numbers, roman numerals to 1000.** **Number: Addition & Subtraction** **Add two 4-digit numbers one exchange, add two 4-digit numbers - more than one exchange, add whole numbers with more than 4 digits (column method), subtract two 4-digit numbers- one exchange, subtract whole numbers with more than 4 digits (Column**	**Number: Decimals and Percentages** **Decimals up to 2 decimal places, decimals as fractions, understanding thousandths, thousandths as decimals, rounding decimals, order and compare decimals, understand percentages, percentages as decimals and fractions, equivalent F.D.P** **Number: Decimals** **Adding decimals within 1, subtracting decimals within 1, complements to 1,** **Adding decimals- crossing the whole, adding decimals with the same number of D.P. subtracting decimals with the same number of decimal places, adding decimals with a different number of D.P, subtracting decimals with a different number of D.P, adding and**	**Geometry: Properties of shape** **Measuring angles in degrees, measuring with a protractor, drawing lines and angles accurately, calculating angles on a straight line, calculating angles around a point, calculating lengths and angles in shapes, regular and irregular polygons, reasoning abut 3-D shapes.** **Geometry: Position & Direction** **Position in the first quadrant, reflection, reflection with coordinates, translation, translation with coordinates.** **Statistics** **Interpret charts, comparison, sum, difference, introducing line graphs, read and interpret line graphs, draw line graphs, use line**

Newbold Church of England Primary School

At Newbold we aim to support each other to live, learn and excel together as a Christian community.

"Therefore encourage one another and build each other up," 1 Thessalonians 5:11

Maths Curriculum Map		Autumn	Spring	Summer
		method),round to estimate and approximate, inverse operations (addition and subtraction),multi- step addition and subtraction problems. **Number: Multiplication & Division** Multiples, factors, common factors, prime numbers, square numbers, cube numbers, multiply by 10, multiply by 100, multiply by 10,100 and 1,000, divide by 10, divide by 100, divide by 10,100 and 1,000, multiples of 10,100 and 1,000. Multiply 2-digits by 1-digit, multiply 3 digits by 1-digit, multiply 4-digits by 1- digit, multiply 2-digits (area model) multiply 2-digits by 2-digits, multiply 3-digits by 2 digits, multiply 4-digits by 2- digits. Divide 2-digits by 1 digit, divide 3 digits by 1 digit, divide 4 digits by 1-digit, divide with remainders. **Number: Fractions** What is a fraction? Equivalent fractions, fractions greater than 1, improper fractions to mixed numbers, mixed number to improper fractions, number sequences, compare and order fractions less than 1, compare and order fractions greater than 1, add and subtract fractions, add fractions with 1, add 3 or more fractions, add fractions.	subtracting wholes and decimals, decimal sequences, multiplying decimals by 10, 100, 1,000, diving decimals by 10,100 and 1,000. **Measurement: Converting Units** Kilograms & Kilometres, milligrams & Millilitres, metric units, imperial units, converting units of time, timetables.	graphs to solve problems, read and interpret tables, two-way tables, timetables. **Measurement: Perimeter, Area & Volume** Measure perimeter, perimeter on a grid, perimeter of rectangles, perimeter of rectilinear shapes, calculate perimeter, counting squares, areas of rectangles, area of compound shapes, area of irregular shapes. What is volume? compare volume, estimate capacity, estimate volume. **Problem solving**
	6	**Number: Place Value** Numbers to 10,000, numbers to 1000,000, numbers to a million, numbers to 10 million, compare and order any number, round to nearest 10, 100, round to nearest 100, round any number, negative numbers. **Number: Four Operations** Add whole numbers with more than 4-digits, subtract whole numbers with more than 4 digits, invers operations (add and Subtract) multi-step addition and subtraction problems, add and subtract integers, multiply 4-digits by 1-digit, multiply 2-digits (area model), multiply 2-digits by 2-digits, multiply 3-digits by 2-digits, multiply up to a 4-digit by a 2 digit number, divide 4-digits by 1-digit, divide with remainders, short division, division factors. Long division, factors, common factors, common multiples, primes to 100, squares and cubes, order operations, mental calculations and estimation reason from known facts. **Number: Fractions** Equivalent fractions, simplify fractions, improper fractions to mixed numbers, mixed number to improper fractions, fractions on a number line, compare and order (denominator) compare and order (numerator) add and subtract fractions, add mixed numbers, add fractions, subtract mixed numbers, subtract fractions. Mixed addition & subtraction, multiply fractions by integers, multiply fractions by fractions, divide fractions by integers, four rules with fractions, fraction of an amount, fraction of an amount- find the whole.	**Number: Decimals** Decimals up to 2 decimal places (D.P) understand thousandths, 3 decimal places, multiply by 10,100,1,000, divide by 10,100,1000, multiply decimals by integers, divide by integers, division to solve problems, decimals as fractions, fractions to decimals. **Number: Percentages** Understand percentages, fractions to percentage, equivalent FDP, order FDP, percentage of an amount, percentages- missing values. **Measurement: Converting Units** Metric measure, convert metric measures, calculate with metric measures, miles and kilometres, imperial measures. **Number: Algebra & Ratio** Find a rule-one step, find a rule 2-steps, forming expressions, substitution, formulae, forming equations, solve simple one step equations, solve two step equations, find pairs of values, enumerate possibilities Using ratio language, Ratio and fractions, introducing the ratio symbol, calculating ratio, using scale factors, calculating scale factors, ratio and proportion problems.	**Geometry: Properties of shape** Measuring with a protractor, draw lines and angles accurately, introduce angles, angles on a straight line, angles around a point, calculate angles, vertically opposite angles, angles in a triangle, angles in a triangle- special cases, angles in a triangle-missing angles, angles in special quadrilaterals, angles in regular polygons, draw shapes accurately, draw nets of 3-D shapes. **Geometry: Position & Direction** The first quadrant, four quadrats, translations, reflections. **Statistics** Read and interpret line graphs, draw line graphs, use line graphs to solve problems, circles, read and interpret pie charts, pie charts with percentages, draw pie charts, the mean. **Measurement: Perimeter, Area & Volume** Using ratio language, shapes-same area, area and perimeter, area of a triangle, area of a parallelogram, what is volume? Volume counting cubes, volume of a cuboid.