Our **Hawridge & Cholesbury** curriculum provides opportunities for our children to be;

Fascinated

Rounded

Eager to make a difference

Spiritual

Hold high aspirations

 Learning through nature

 Active learning

HAWRIDGE & CHOLESBURY CHURCH OF ENGLAND SCHOOL

Maths Long Term Overview

Year Group	Autumn	Spring	Summer
Wind mills	**Block 1 - Match, sort and compare** Step 1 - Match objects Step 2 - Match pictures and objects Step 3 - Identify a set Step 4 - Sort objects to a type Step 5 - Explore sorting techniques Step 6 - Create sorting rules Step 7 -Compare amounts **Block 2 – Talk about measure and pattern** Step 1 - Compare size Step 2 - Compare mass Step 3 - Compare capacity Step 4 - Explore simple patterns Step 5 - Copy and continue simple patterns Step 6 - Create simple patterns	**Block 1 – Alive in 5** Step 1- Introduce Zero Step 2- Find 0 to 5 Step 3- Subitise 0 to 5 Step 4- Represent 0 to 5 Step 5- 1 more Step 6- 1 less Step 7- Composition Step 8- Conceptual subitising to 5 **Block 2 – Mass and Capacity** Step 1- Compare mass Step 2- Find a balance Step 3- Explore capacity Step 4- Compare capacity **Block 3 – Growing 6, 7, 8**	**Block 1 – To 20 and beyond** Step 1-Build numbers beyond 10 (10-13) Step 2- Continue patterns beyond 10 (10-13) Step 3- Build patterns beyond 10 (14-20) Step 4- Continue patterns beyond (14-20) Step 5- Verbal counting beyond 20 Step 6- Verbal counting beyond patterns **Block 2 – How many now?** Step 1- Add more Step 2- How many did I add? Step 3- Take away Step 4- How many did I take away? **Block 3 – Manipulate, compose and decompose** Step 1- Select shapes for a purpose Step 2- Rotate shapes

	Block 3 – It's me 1, 2, 3 Step 1 - Find 1, 2 and 3 Step 2 - Subitise 1, 2 and 3 Step 3 - Represent 1, 2 and 3 Step 4 - 1 more Step 5 - 1 less Step 6 - Composition of 1, 2 and 3 **Block 4 – Circles and triangles** Step 1 - Identify and name circles and triangles Step 2 - Compare circles and triangles Step 3 - Shapes in the environment Step 4 - Describe position **Block 5 – 1, 2, 3, 4, 5** Step 1 - Find 4 and 5 Step 2 - Subitise 4 and 5 Step 3 - Represent 4 and 5 Step 4 - 1 more Step 5 - 1 less Step 6 - Composition of 4 and 5 Step 7 - Composition of 1–5 **Block 6 – Shapes with 4 sides** Step 1 - Identify and name shapes with 4 sides Step 2 - Combine shapes with 4 sides Step 3 - Shapes in the environment Step 4 - My day and night	Step 1- Find 6, 7 and 8 Step 2- Represent 6, 7 and 8 Step 3- 1 more Step 4- 1 less Step 5- Composition of 6, 7 and 8 Step 6- Make pairs odd and even Step 7- Double to 8 (find a double) Step 8- Double to 8 (make a double) Step 9- Combine 2 groups Step 10- Conceptual subitising **Block 4 – Length, Height and Time** Step 1- Explore length Step 2- Compare length Step 3- Explore height Step 4- Compare height Step 5- Talk about time Step 6- Order and sequence time **Block 5 – Building 9 and 10** Step 1- Find 9 and 10 Step 2- Compare numbers to 10 Step 3- Represent 9 and 10 Step 4- Conceptual subitising to 10 Step 5- 1 more Step 6- 1 less Step 7- Composition to 10 Step 8- Bonds to 10 (2 parts) Step 9- Make arrangements of 10 Step 10- Bonds to 10 (3 parts) Step 11-Doubles to 10 (find a double) Step 12- Doubles to 10 (make a double) Step 13- Explore even and odd	Step 3- Manipulate shapes Step 4- Explain shape arrangements Step 5- Compose shapes Step 6- Decompose shapes Step 7- Copy 2D shape pictures Step 8- Find 2D within 3D shapes **Block 4 – Sharing and grouping** Step 1- Explore shaping Step 2- Sharing Step 3- Explore grouping Step 4-Grouping Step 5- Even and odd sharing Step 6-Play With and build doubles **Block 5 –Visualise, map and build** Step 1- Identify units of repeating patterns Step 2-Create own pattern rules Step 3-Explore own pattern rules Step 4-Replicate and build scenes and constructions Step 5-Visualise from different positions Step 6- Describe positions Step 7-Give instructions to build Step 8-Explore mapping Step 9-Represent maps with models Step 10- Create own maps from familiar places Step 11- Create own maps and plans from story situations **Block 6 –Make connections** Step 1- Deepen understanding Step 2-Patterns and relationships

		Block 6 – Explore 3D shapes Step 1- Recognise and name 3D shapes Step 2- Find 2D shapes within 3D shapes Step 3- Use 3D shapes for tasks Step 4- 3D Shapes within the environment Step 5- Identify more complex patterns Step 6- Copy and continue patterns Step 7- Patterns in the environment	
Year 1	**YEAR 1**		
	Block 1 – Place Value Step 1 - Sort objects Step 2 - Count objects Step 3 - Count objects from a larger group Step 4 - Represent objects Step 5 - Recognise numbers as words Step 6 - Count on from any number Step 7 - 1 more Step 8 - Count backwards within 10 Step 9 - 1 less Step 10 - Compare groups by matching Step 11 - Fewer, more, same Step 12 - Less than, greater than, equal to Step 13 - Compare numbers Step 14 - Order objects and numbers Step 15 - The number line **Block 2 – Addition and subtraction** Step 1 - Introduce parts and wholes Step 2 - Part-whole model	**Block 1 – Place Value within 20** Step 1 - Count within 20 Step 2 - Understand 10 Step 3 - Understand 11, 12 and 13 Step 4 - Understand 14, 15 and 16 Step 5 - Understand 17, 18 and 19 Step 6 - Understand 20 Step 7 - 1 more and 1 less Step 8 - The number line to 20 Step 9 - Use a number line to 20 Step 10 - Estimate on a number line to 20 Step 11 - Compare numbers to 20 Step 12 - Order numbers to 20 **Block 2 – Addition and Subtraction within 20** Step 1 - Add by counting on within 20 Step 2 - Add ones using number bonds Step 3 - Find and make number bonds to 20 Step 4 - Doubles Step 5 - Near doubles	**Block 1 – Multiplication and Division** Step 1 - Count in 2s Step 2 - Count in 10s Step 3 - Count in 5s Step 4 - Recognise equal groups Step 5 - Add equal groups Step 6 - Make arrays Step 7 - Make doubles Step 8 - Make equal groups – grouping Step 9 - Make equal groups – sharing **Block 2 – Fractions** Step 1 - Recognise a half of an object or a shape Step 2 - Find a half of an object or a shape Step 3 - Recognise a half of a quantity Step 4 - Find a half of a quantity Step 5 - Recognise a quarter of an object or a shape Step 6 - Find a quarter of an object or a shape Step 7 - Recognise a quarter of a quantity

	Step 3 - Write number sentences Step 4 - Fact families – addition facts Step 5 - Number bonds within 10 Step 6 - Systematic number bonds within 10 Step 7 - Number bonds to 10 Step 8 - Addition – add together Step 9 - Addition – add more Step 10 - Addition problems Step 11 - Find a part Step 12 - Subtraction – find a part Step 13 - Fact families – the eight facts Step 14 - Subtraction – take away/cross out (How many left?) Step 15 - Take away (How many left?) Step 16 - Subtraction on a number line Step 17 – Add or subtract 1 or 2 **Block 3 – Shape** Step 1 - Recognise and name 3-D shapes Step 2 - Sort 3-D shapes Step 3 - Recognise and name 2-D shapes Step 4 - Sort 2-D shapes Step 5 - Patterns with 2-D and 3-D shapes	Step 6 - Subtract ones using number bonds Step 7 - Subtraction – counting back Step 8 - Subtraction – finding the difference Step 9 - Related facts Step 10 - Missing number problems **Block 3 – Place Value within 50** Step 1 - Count from 20 to 50 Step 2 - 20, 30, 40 and 50 Step 3 - Count by making groups of tens Step 4 - Groups of tens and ones Step 5 - Partition into tens and ones Step 6 - The number line to 50 Step 7 - Estimate on a number line to 50 Step 8 - 1 more, 1 less **Block 4 – Height and Length** Step 1 - Compare lengths and heights Step 2 - Measure length using objects Step 3 - Measure length in centimetres **Block 5 – Mass and Volume** Step 1 - Heavier and lighter Step 2 - Measure mass Step 3 - Compare mass Step 4 - Full and empty Step 5 - Compare volume	Step 8 - Find a quarter of a quantity **Block 3 – Position and Direction** Step 1 - Describe turns Step 2 - Describe position – left and right Step 3 - Describe position – forwards and backwards Step 4 - Describe position – above and below Step 5 - Ordinal numbers **Block 4 – Place Value within 100** Step 1 - Count from 50 to 100 Step 2 - Tens to 100 Step 3 - Partition into tens and ones Step 4 - The number line to 100 Step 5 - 1 more, 1 less Step 6 - Compare numbers with the same number of tens Step 7 - Compare any two numbers **Block 5 – Money** Step 1 - Unitising Step 2 - Recognise coins Step 3 - Recognise notes Step 4 - Count in coins **Block 6 – Time** Step 1 - Before and after Step 2 - Days of the week

		Step 6 - Measure capacity Step 7 - Compare capacity	Step 3 - Months of the year Step 4 - Hours, minutes and seconds Step 5 - Tell the time to the hour Step 6 - Tell the time to the half hour
Year 2	**YEAR 2**		
	Block 1 – Place Value Step 1 - Numbers to 20 Step 2 - Count objects to 100 by making 10s Step 3 - Recognise tens and ones Step 4 - Use a place value chart Step 5 - Partition numbers to 100 Step 6 - Write numbers to 100 in words Step 7 - Flexibly partition numbers to 100 Step 8 - Write numbers to 100 in expanded form Step 9 - 10s on the number line to 100 Step 10 - 10s and 1s on the number line to 100 Step 11 - Estimate numbers on a number line Step 12 - Compare objects Step 13 - Compare numbers Step 14 - Order objects and numbers Step 15 - Count in 2s, 5s and 10s Step 16 - Count in 3s **Block 2 – Addition and Subtraction** Step 1 - Bonds to 10	**Block 1 – Money** Step 1 - Count money – pence Step 2 - Count money – pounds (notes and coins) Step 3 - Count money – pounds and pence Step 4 - Choose notes and coins Step 5 - Make the same amount Step 6 - Compare amounts of money Step 7 - Calculate with money Step 8 - Make a pound Step 9 - Find change Step 10 - Two-step problems **Block 2 – Multiplication and Division** Step 1 - Recognise equal groups Step 2 - Make equal groups Step 3 - Add equal groups Step 4 - Introduce the multiplication symbol Step 5 - Multiplication sentences Step 6 - Use arrays Step 7 - Make equal groups – grouping	**Block 1 – Fractions** Step 1 - Introduction to parts and whole Step 2 - Equal and unequal parts Step 3 - Recognise a half Step 4 - Find a half Step 5 - Recognise a quarter Step 6 - Find a quarter Step 7 - Recognise a third Step 8 - Find a third Step 9 - Find the whole Step 10 - Unit fractions Step 11 - Non-unit fractions Step 12 - Recognise the equivalence of a half and two-quarters Step 13 - Recognise three-quarters Step 14 - Find three-quarters Step 15 - Count in fractions up to a whole **Block 2 – Time** Step 1 - O'clock and half past

	Step 2 - Fact families - addition and subtraction bonds within 20 Step 3 - Related facts Step 4 - Bonds to 100 (tens) Step 5 - Add and subtract 1s Step 6 - Add by making 10 Step 7 - Add three 1-digit numbers Step 8 - Add to the next 10 Step 9 - Add across a 10 Step 10 - Subtract across 10 Step 11 - Subtract from a 10 Step 12 - Subtract a 1-digit number from a 2-digit number (across a 10) Step 13 - 10 more, 10 less Step 14 - Add and subtract 10s Step 15 - Add two 2-digit numbers (not across a 10) Step 16 - Add two 2-digit numbers (across a 10) Step 17 - Subtract two 2-digit numbers (not across a 10) Step 18 - Subtract two 2-digit numbers (across a 10) Step 19 - Mixed addition and subtraction Step 20 - Compare number sentences Step 21 - Missing number problems **Block 3 – Shape** Step 1 - Recognise 2-D and 3-D shapes Step 2 - Count sides on 2-D shapes Step 3 - Count vertices on 2-D shapes Step 4 - Draw 2-D shapes Step 5 - Lines of symmetry on shapes Step 6 - Use lines of symmetry to complete shapes Step 7 - Sort 2-D shapes	Step 8 - Make equal groups – sharing Step 9 - The 2 times-table Step 10 - Divide by 2 Step 11 - Doubling and halving Step 12 - Odd and even numbers Step 13 - The 10 times-table Step 14 - Divide by 10 Step 15 - The 5 times-table Step 16 - Divide by 5 Step 17 - The 5 and 10 times-tables **Block 3 – Length and Height** Step 1 - Measure in centimetres Step 2 - Measure in metres Step 3 - Compare lengths and heights Step 4 - Order lengths and heights Step 5 - Four operations with lengths and heights **Block 4 – Mass, Capacity and Temperature** Step 1 - Compare mass Step 2 - Measure in grams Step 3 - Measure in kilograms Step 4 - Four operations with mass Step 5 - Compare volume and capacity Step 6 - Measure in millilitres Step 7 - Measure in litres Step 8 - Four operations with volume and capacity Step 9 – Temperature	Step 2 - Quarter past and quarter to Step 3 - Tell the time past the hour Step 4 - Tell the time to the hour Step 5 - Tell the time to 5 minutes Step 6 - Minutes in an hour Step 7 - Hours in a day **Block 3 – Statistics** Step 1 - Make tally charts Step 2 - Tables Step 3 - Block diagrams Step 4 - Draw pictograms (1–1) Step 5 - Interpret pictograms (1–1) Step 6 - Draw pictograms (2, 5 and 10) Step 7 - Interpret pictograms (2, 5 and 10) **Block 4 – Position and Direction** Step 1 - Language of position Step 2 - Describe movement Step 3 - Describe turns Step 4 - Describe movement and turns Step 5 - Shape patterns with turns

	Step 8 - Count faces on 3-D shapes Step 9 - Count edges on 3-D shapes Step 10 - Count vertices on 3-D shapes Step 11 - Sort 3-D shapes Step 12 - Make patterns with 2-D and 3-D shapes		
Year 3	**YEAR 3**		
	Block 1 – Place Value Step 1 - Represent numbers to 100 Step 2 - Partition numbers to 100 Step 3 - Number line to 100 Step 4 - Hundreds Step 5 - Represent numbers to 1,000 Step 6 - Partition numbers to 1,000 Step 7 - Flexible partitioning of numbers to 1,000 Step 8 - Hundreds, tens and ones Step 9 - Find 1, 10 or 100 more or less Step 10 - Number line to 1,000 Step 11 - Estimate on a number line to 1,000 Step 12 - Compare numbers to 1,000 Step 13 - Order numbers to 1,000 Step 14 - Count in 50s **Block 2 - Addition and Subtraction** Step 1 - Apply number bonds within 10 Step 2 - Add and subtract 1s Step 3 - Add and subtract 10s	**Block 1 – Multiplication and Division (B)** Step 1 - Multiples of 10 Step 2 - Related calculations Step 3 - Reasoning about multiplication Step 4 - Multiply a 2-digit number by a 1-digit number – no exchange Step 5 - Multiply a 2-digit number by a 1-digit number – with exchange Step 6 - Link multiplication and division Step 7 - Divide a 2-digit number by a 1-digit number – no exchange Step 8 - Divide a 2-digit number by a 1-digit number – flexible partitioning Step 9 - Divide a 2-digit number by a 1-digit number – with remainders Step 10 - Scaling Step 11 - How many ways? **Block 2 – Length and Perimeter** Step 1 - Measure in metres and centimetres	**Block 1 – Fractions (B)** Step 1 - Add fractions Step 2 - Subtract fractions Step 3 - Partition the whole Step 4 - Unit fractions of a set of objects Step 5 - Non-unit fractions of a set of objects Step 6 - Reasoning with fractions of an amount **Block 2 – Money** Step 1 - Pounds and pence Step 2 - Convert pounds and pence Step 3 - Add money Step 4 - Subtract money Step 5 - Find change **Block 3 – Time** Step 1 - Roman numerals to 12 Step 2 - Tell the time to 5 minutes Step 3 - Tell the time to the minute

	Step 4 - Add and subtract 100s Step 5 - Spot the pattern Step 6 - Add 1s across a 10 Step 7 - Add 10s across a 100 Step 8 - Subtract 1s across a10 Step 9 - Subtract 10s across a 100 Step 10 - Make connections Step 11 - Add two numbers (no exchange) Step 12 - Subtract two numbers (no exchange) Step 13 - Add two numbers (across a 10) Step 14 - Add two numbers (across a 100) Step 15 - Subtract two numbers (across a 10) Step 16 - Subtract two numbers (across a 100) Step 17 - Add 2-digit and 3-digit numbers Step 18 - Subtract a 2-digit number from a 3-digit number Step 19 - Complements to 100 Step 20 - Estimate answers Step 21 - Inverse operations Step 22 - Make decisions **Block 3 – Multiplication and Division (A)** Step 1 - Multiplication – equal groups Step 2 - Use arrays Step 3 - Multiples of 2 Step 4 - Multiples of 5 and 10 Step 5 - Sharing and grouping Step 6 - Multiply by 3 Step 7 - Divide by 3 Step 8 - The 3 times-table Step 9 - Multiply by 4 Step 10 - Divide by 4	Step 2 - Measure in millimetres Step 3 - Measure in centimetres and millimetres Step 4 - Metres, centimetres and millimetres Step 5 - Equivalent lengths (metres and centimetres) Step 6 - Equivalent lengths (centimetres and millimetres) Step 7 - Compare lengths Step 8 - Add lengths Step 9 – Subtract lengths Step 10 - What is perimeter? Step 11 - Measure perimeter Step 12 - Calculate perimeter **Block 3 – Fractions (A)** Step 1 - Understand the denominators of unit fractions Step 2 - Compare and order unit fractions Step 3 - Understand the numerators of non-unit fractions Step 4 - Understand the whole Step 5 - Compare and order non-unit fractions Step 6 - Fractions and scales Step 7 - Fractions on a number line Step 8 - Count in fractions on a number line Step 9 - Equivalent fractions on a number line Step 10 - Equivalent fractions as bar models **Block 4 – Mass and Capacity** Step 1 - Use scales Step 2 - Measure mass in grams Step 3 - Measure mass in kilograms and grams Step 4 - Equivalent masses (kilograms and grams)	Step 4 - Read time on a digital clock Step 5 - Use am and pm Step 6 - Years, months and days Step 7 - Days and hours Step 8 - Hours and minutes – use start and end times Step 9 - Hours and minutes - use durations Step 10 - Minutes and seconds Step 11 - Units of time Step 12 - Solve problems with time **Block 4 – Shape** Step 1 - Turns and angles Step 2 - Right angles Step 3 - Compare angles Step 4 - Measure and draw accurately Step 5 - Horizontal and vertical Step 6 - Parallel and perpendicular Step 7 - Recognise and describe 2-D shapes Step 8 - Draw polygons Step 9 - Recognise and describe 3-D shapes Step 10 - Make 3-D shapes **Block 5 – Statistics** Step 1 - Interpret pictograms Step 2 - Draw pictograms Step 3 - Interpret bar charts Step 4 - Draw bar charts Step 5 - Collect and represent data Step 6 - Two-way tables

	Step 11 - The 4 times-table Step 12 - Multiply by 8 Step 13 - Divide by 8 Step 14 - The 8 times-table Step 15 - The 2, 4 and 8 times-tables	Step 5 - Compare mass Step 6 - Add and subtract mass Step 7 - Measure capacity and volume in millilitres Step 8 - Measure capacity and volume in litres and millilitres Step 9 - Equivalent capacities and volumes (litres and millilitres) Step 10 - Compare capacity and volume Step 11 - Add and subtract capacity and volume	
Year 4	**YEAR 4**		
	Block 1 –Place Value Step 1 - Represent numbers to 1,000 Step 2 - Partition numbers to 1,000 Step 3 - Number line to 1,000 Step 4 - Thousands Step 5 - Represent numbers to 10,000 Step 6 - Partition numbers to 10,000 Step 7 - Flexible partitioning of numbers to 10,000 Step 8 - Find 1, 10, 100, 1,000 more or less Step 9 - Number line to 10,000 Step 10 - Estimate on a number line to 10,000 Step 11 - Compare numbers to 10,000 Step 12 - Order numbers to 10,000 Step 13 - Roman numerals Step 14 - Round to the nearest 10 Step 15 - Round to the nearest 100 Step 16 - Round to the nearest 1,000 Step 17 - Round to the nearest 10, 100 or 1,000 **Block 2 – Addition and Subtraction**	**Block 1 – Multiplication and Division (B)** Step 1 - Factor pairs Step 2 - Use factor pairs Step 3 - Multiply by 10 Step 4 - Multiply by 100 Step 5 - Divide by 10 Step 6 - Divide by 100 Step 7 - Related facts – multiplication and division Step 8 - Informal written methods for multiplication Step 9 - Multiply a 2-digit number by a 1-digit number Step 10 - Multiply a 3-digit number by a 1-digit number Step 11 - Divide a 2-digit number by a 1-digit number (1) Step 12 - Divide a 2-digit number by a 1-digit number (2) Step 13 - Divide a 3-digit number by a 1-digit number Step 14 - Correspondence problems Step 15 - Efficient multiplication **Block 2 – Length and Perimeter**	**Block 1 – Decimals (B)** Step 1 - Make a whole with tenths Step 2 - Make a whole with hundredths Step 3 - Partition decimals Step 4 - Flexibly partition decimals Step 5 - Compare decimals Step 6 - Order decimals Step 7 - Round to the nearest whole number Step 8 - Halves and quarters as decimals **Block 2 – Money** Step 1 - Write money using decimals Step 2 - Convert between pounds and pence Step 3 - Compare amounts of money Step 4 - Estimate with money Step 5 - Calculate with money Step 6 - Solve problems with money **Block 3 – Time**

	Step 1 - Add and subtract 1s, 10s, 100s and 1,000s Step 2 - Add up to two 4-digit numbers – no exchange Step 3 - Add two 4-digit numbers – one exchange Step 4 - Add two 4-digit numbers – more than one exchange Step 5 - Subtract two 4-digit numbers – no exchange Step 6 - Subtract two 4-digit numbers – one exchange Step 7 - Subtract two 4-digit numbers – more than one exchange Step 8 - Efficient subtraction Step 9 - Estimate answers Step 10 – Checking strategies **Block 3 –Area** Step 1 - What is area? Step 2 - Count squares Step 3 - Make shapes Step 4 - Compare areas **Block 4 – Multiplication and Division (A)** Step 1 - Multiples of 3 Step 2 - Multiply and divide by 6 Step 3 - 6 times-table and division facts Step 4 - Multiply and divide by 9 Step 5 - 9 times-table and division facts Step 6 - The 3, 6 and 9 times-tables Step 7 - Multiply and divide by 7 Step 8 - 7 times-table and division facts Step 9 - 11 times-table and division facts Step 10 - 12 times-table and division facts Step 11 - Multiply by 1 and 0	Step 1 - Measure in kilometres and metres Step 2 - Equivalent lengths (kilometres and metres) Step 3 - Perimeter on a grid Step 4 - Perimeter of a rectangle Step 5 - Perimeter of rectilinear shapes Step 6 - Find missing lengths in rectilinear shapes Step 7 - Calculate perimeter of rectilinear shapes Step 8 - Perimeter of regular polygons Step 9 - Perimeter of polygons **Block 3 – Fractions** Step 1 - Understand the whole Step 2 - Count beyond 1 Step 3 - Partition a mixed number Step 4 - Number lines with mixed numbers Step 5 - Compare and order mixed numbers Step 6 - Understand improper fractions Step 7 - Convert mixed numbers to improper fractions Step 8 - Convert improper fractions to mixed numbers Step 9 - Equivalent fractions on a number line Step 10 - Equivalent fraction families Step 11 - Add two or more fractions Step 12 - Add fractions and mixed numbers Step 13 - Subtract two fractions Step 14 - Subtract from whole amounts Step 15 - Subtract from mixed numbers **Block 4 – Decimals (A)** Step 1 - Tenths as fractions Step 2 - Tenths as decimals	Step 1 - Years, months, weeks and days Step 2 - Hours, minutes and seconds Step 3 - Convert between analogue and digital times Step 4 - Convert to the 24-hour clock Step 5 - Convert from the 24-hour clock **Block 4 – Shape** Step 1 - Understand angles as turns Step 2 - Identify angles Step 3 - Compare and order angles Step 4 - Triangles Step 5 - Quadrilaterals Step 6 - Polygons Step 7 - Lines of symmetry Step 8 - Complete a symmetric figure **Block 5 – Statistics** Step 1 - Interpret charts Step 2 - Comparison, sum and difference Step 3 - Interpret line graphs Step 4 - Draw line graphs **Block 6 – Position and Direction** Step 1 - Describe position using coordinates Step 2 - Plot coordinates Step 3 - Draw 2-D shapes on a grid Step 4 - Translate on a grid

	Step 12 - Divide a number by 1 and itself Step 13 - Multiply three numbers	Step 3 - Tenths on a place value chart Step 4 - Tenths on a number line Step 5 - Divide a 1-digit number by 10 Step 6 - Divide a 2-digit number by 10 Step 7 - Hundredths as fractions Step 8 - Hundredths as decimals Step 9 - Hundredths on a place value chart Step 10 - Divide a 1- or 2-digit number by 100	Step 5 - Describe translation on a grid
Year 5	**YEAR 5**		
	Block 1 – Place Value Step 1 Roman numerals to 1,000 Step 2 Numbers to 10,000 Step 3 Numbers to 100,000 Step 4 Numbers to 1,000,000 Step 5 Read and write numbers to 1,000,000 Step 6 Powers of 10 Step 7 10/100/1,000/10,000/100,000 more or less Step 8 Partition numbers to 1,000,000 Small steps Year 5 | Autumn term | Block 1 – Place value © White Rose Maths 2022 Step 9 Number line to 1,000,000 Step 10 Compare and order numbers to 100,000 Step 11 Compare and order numbers to 1,000,000 Step 12 Round to the nearest 10, 100 or 1,000 Step 13 Round within 100,000 Step 14 Round within 1,000,000 **Block 2 – Addition and Subtraction**	**Block 1 – Multiplication and Division (B)** Step 1 - Multiply up to a 4-digit number by a 1-digit number Step 2 - Multiply a 2-digit number by a 2-digit number (area model) Step 3 - Multiply a 2-digit number by a 2-digit number Step 4 - Multiply a 3-digit number by a 2-digit number Step 5 - Multiply a 4-digit number by a 2-digit number Step 6 - Solve problems with multiplication Step 7 - Short division Step 8 - Divide a 4-digit number by a 1-digit number Step 9 - Divide with remainders Step 10 - Efficient division Step 11 - Solve problems with multiplication and division **Block 2 – Fractions (B)** Step 1 - Multiply a unit fraction by an integer Step 2 - Multiply a non-unit fraction by an integer Step 3 - Multiply a mixed number by an integer	**Block 1 –Shape** Step 1 - Understand and use degrees Step 2 - Classify angles Step 3 - Estimate angles Step 4 - Measure angles up to 180° Step 5 - Draw lines and angles accurately Step 6 - Calculate angles around a point Step 7 - Calculate angles on a straight line Step 8 - Lengths and angles in shapes Step 9 - Regular and irregular polygons Step 10 - 3-D shapes **Block 2 – Position and Direction** Step 1 - Read and plot coordinates Step 2 - Problem solving with coordinates Step 3 - Translation Step 4 - Translation with coordinates Step 5 - Lines of symmetry Step 6 - Reflection in horizontal and vertical lines

	Step 1 - Mental strategies Step 2 - Add whole numbers with more than four digits Step 3 - Subtract whole numbers with more than four digits Step 4 - Round to check answers Step 5 - Inverse operations (addition and subtraction) Step 6 - Multi-step addition and subtraction problems Step 7 - Compare calculations Step 8 - Find missing numbers **Block 3 – Multiplication and Divisions (A)** Step 1 - Multiples Step 2 - Common multiples Step 3 - Factors Step 4 - Common factors Step 5 - Prime numbers Step 6 - Square numbers Step 7 - Cube numbers Step 8 - Multiply by 10, 100 and 1,000 Step 9 - Divide by 10, 100 and 1,000 Step 10 - Multiples of 10, 100 and 1,000 **Block 4 – Fractions (A)** Step 1 - Find fractions equivalent to a unit fraction Step 2 - Find fractions equivalent to a non-unit fraction Step 3 - Recognise equivalent fractions Step 4 - Convert improper fractions to mixed numbers Step 5 - Convert mixed numbers to improper fractions Step 6 - Compare fractions less than 1	Step 4 - Calculate a fraction of a quantity Step 5 - Fraction of an amount Step 6 - Find the whole Step 7 - Use fractions as operators **Block 3 – Decimals and Percentages** Step 1 - Decimals up to 2 decimal places Step 2 - Equivalent fractions and decimals (tenths) Step 3 - Equivalent fractions and decimals (hundredths) Step 4 - Equivalent fractions and decimals Step 5 - Thousandths as fractions Step 6 - Thousandths as decimals Step 7 - Thousandths on a place value chart Step 8 - Order and compare decimals (same number of decimal places) Step 9 - Order and compare any decimals with up to 3 decimal places Step 10 - Round to the nearest whole number Step 11 - Round to 1 decimal place Step 12 - Understand percentages Step 13 - Percentages as fractions Step 14 - Percentages as decimals Step 15 - Equivalent fractions, decimals and percentages **Block 4 – Perimeter and Area**	**Block 3 – Decimals** Step 1 - Use known facts to add and subtract decimals within 1 Step 2 - Complements to 1 Step 3 - Add and subtract decimals across 1 Step 4 - Add decimals with the same number of decimal places Step 5 - Subtract decimals with the same number of decimal places Step 6 - Add decimals with different numbers of decimal places Step 7 - Subtract decimals with different numbers of decimal places Step 8 - Efficient strategies for adding and subtracting decimals Step 9 - Decimal sequences Step 10 - Multiply by 10, 100 and 1,000 Step 11 - Divide by 10, 100 and 1,000 Step 12 - Multiply and divide decimals – missing values **Block 4 – Negative Numbers**

	Step 7 - Order fractions less than 1 Step 8 - Compare and order fractions greater than 1 Step 9 - Add and subtract fractions with the same denominator Step 10 - Add fractions within 1 Step 11 - Add fractions with total greater than 1 Step 12 - Add to a mixed number Step 13 - Add two mixed numbers Step 14 - Subtract fractions Step 15 - Subtract from a mixed number Step 16 - Subtract from a mixed number – breaking the whole Step 17 - Subtract two mixed numbers	Step 1 - Perimeter of rectangles Step 2 - Perimeter of rectilinear shapes Step 3 - Perimeter of polygons Step 4 - Area of rectangles Step 5 - Area of compound shapes Step 6 - Estimate area **Block 5 – Statistics** Step 1 - Draw line graphs Step 2 - Read and interpret line graphs Step 3 - Read and interpret tables Step 4 - Two-way tables Step 5 - Read and interpret timetables	Step 1 - Understand negative numbers Step 2 - Count through zero in 1s Step 3 - Count through zero in multiples Step 4 - Compare and order negative numbers Step 5 - Find the difference **Block 5 – Converting Units** Step 1 - Kilograms and kilometres Step 2 - Millimetres and millilitres Step 3 - Convert units of length Step 4 - Convert between metric and imperial units Step 5 - Convert units of time Step 6 - Calculate with timetables **Block 6 – Volume** Step 1 - Cubic centimetres Step 2 - Compare volume Step 3 - Estimate volume Step 4 - Estimate capacity

Year 6	**YEAR 6**		
	Block 1 – Place Value Step 1 - Numbers to 1,000,000 Step 2 - Numbers to 10,000,000 Step 3 - Read and write numbers to 10,000,000 Step 4 - Powers of 10 Step 5 - Number line to 10,000,000 Step 6 - Compare and order any integers Step 7 - Round any integer Step 8 - Negative numbers **Block 2 – Addition, Subtraction, Multiplication and Division** Step 1 - Add and subtract integers Step 2 - Common factors Step 3 - Common multiples Step 4 - Rules of divisibility Step 5 - Primes to 100 Step 6 - Square and cube numbers Step 7 - Multiply up to a 4-digit number by a 2-digit number	**Block 1 – Ratio** Step 1 - Add or multiply? Step 2 - Use ratio language Step 3 - Introduction to the ratio symbol Step 4 - Ratio and fractions Step 5 - Scale drawing Step 6 - Use scale factors Step 7 - Similar shapes Step 8 - Ratio problems Step 9 - Proportion problems Step 10 – Recipes **Block 2 – Algebra** Step 1 - 1-step function machines Step 2 - 2-step function machines Step 3 - Form expressions Step 4 - Substitution Step 5 - Formulae Step 6 - Form equations Step 7 - Solve 1-step equations	**Block 1 – Shape** Step 1 - Measure and classify angles Step 2 - Calculate angles Step 3 - Vertically opposite angles Step 4 - Angles in a triangle Step 5 - Angles in a triangle – special cases Step 6 - Angles in a triangle – missing angles Step 7 - Angles in a quadrilateral Step 8 - Angles in polygons Step 9 - Circles Step 10 - Draw shapes accurately Step 11 - Nets of 3-D shapes **Block 2 – Position and Direction** Step 1 - The first quadrant Step 2 - Read and plot points in four quadrants Step 3 - Solve problems with coordinates Step 4 - Translations Step 5 - Reflections

	Step 8 - Solve problems with multiplication Step 9 - Short division Step 10 - Division using factors Step 11 - Introduction to long division Step 12 - Long division with remainders Step 13 - Solve problems with division Step 14 - Solve multi-step problems Step 15 - Order of operations Step 16 - Mental calculations and estimation Step 17 - Reason from known facts **Block 3 – Fractions (A)** Step 1 - Equivalent fractions and simplifying Step 2 - Equivalent fractions on a r) Step 4 - Compare and order (numerator) number line Step 3 - Compare and order (denominator) Step 5 - Add and subtract simple fractions Step 6 - Add and subtract any two fractions Step 7 - Add mixed numbers Step 8 - Subtract mixed numbers Step 9 - Multi-step problems **Block 4 – Fractions (B)** Step 1 - Multiply fractions by integers Step 2 - Multiply fractions by fractions Step 3 - Divide a fraction by an integer Step 4 - Divide any fraction by an integer Step 5 - Mixed questions with fractions Step 6 - Fraction of an amount Step 7 - Fraction of an amount – find the whole	Step 8 - Solve 2-step equations Step 9 - Find pairs of values Step 10 - Solve problems with two unknowns **Block 3 – Decimals** Step 1 - Place value within 1 Step 2 - Place value – integers and decimals Step 3 - Round decimals Step 4 - Add and subtract decimals Step 5 - Multiply by 10, 100 and 1,000 Step 6 - Divide by 10, 100 and 1,000 Step 7 - Multiply decimals by integers Step 8 - Divide decimals by integers Step 9 - Multiply and divide decimals in context **Block 4 – Fractions, Decimals and Percentages** Step 1 - Decimal and fraction equivalents Step 2 - Fractions as division Step 3 - Understand percentages Step 4 - Fractions to percentages Step 5 - Equivalent fractions, decimals and percentages Step 6 - Order fractions, decimals and percentages Step 7 - Percentage of an amount – one step Step 8 - Percentage of an amount – multi-step Step 9 - Percentages – missing values	Post SATS - Themed projects including Mini-Enterprise, consolidation and problem solving

	Block 5 – Converting Units Step 1 - Metric measures Step 2 - Convert metric measures Step 3 - Calculate with metric measures Step 4 - Miles and kilometres Step 5 - Imperial measures	**Block 5 – Area, Perimeter and Volume** Step 1 - Shapes – same area Step 2 - Area and perimeter Step 3 - Area of a triangle – counting squares Step 4 - Area of a right-angled triangle Step 5 - Area of any triangle Step 6 - Area of a parallelogram Step 7 - Volume – counting cubes Step 8 - Volume of a cuboid **Block 6 – Statistics** Step 1 - Line graphs Step 2 - Dual bar charts Step 3 - Read and interpret pie charts Step 4 - Pie charts with percentages Step 5 - Draw pie charts Step 6 - The mean	