

Amington Heath Primary School



Maths Spiral Curriculum

The following document covers the curriculum content for Maths lessons, mental focuses, arithmetic lessons and shape of the week. The curriculum has been carefully crafted to meet the needs of our school community and thus some areas are taught explicitly as mental maths skills while others are cycled through several times deepening understanding and consolidation with each re-visit. This works alongside the Maths policy and calculation policy.

EYFS also use the number blocks spiral curriculum

Non-negotiables for maths

****NO roman numerals until earliest spring term as part of the recovery curriculum****

Arithmetic	Mental maths sessions	Maths lessons
• Snappy maths is to be done daily for 5 min. start of the arithmetic lesson on days this happens (plenary of maths of tues/thurs) • Two arithmetic tests to be completed half termly (one every 3 weeks) – results to be recorded on school spreadsheet to track impact. • Every lesson to start with high 5 – answer 5 in 5 min. • Arithmetic KPIs to be taught and practiced with a focus on speed and fluency. <u>Structure of a session</u> 5 min- KS1 number recognition flashcards/ ks2 shape recognition cards 5 min – high 5 (revision questions that directly link to the arithmetic test presentation) 15 – on the arithmetic KPI teach, practice, fluency -NO APPLICATION this is an arithmetic lesson and should focus purely on speed, pace, fluency and accuracy. 5 min- TT rockstars for y 3 upwards. (number bonds for younger)	• To pre-teach a skill required for future learning, close a gap through recovery curriculum or spiral a key skill. • 5/10 min a day, every day. • Mon teach, tues practice, wed re teach, thurs fri practice. • Use objectives from the curriculum overview provided. • Every pupil should be involved at all times. • Can be differentiated two ways using TA support. • All maths should be completed mentally and pupils should be taught quick mental strategies for completing with jottings to help. NO written methods. • These sessions later in the year will be used to cover objectives instead of lessons on them so it is extremely important that they are taught. However, in autumn 1 they have been structured to provide support for the recovery curriculum. • This should NOT be a worksheet – it should be high paced interaction with a teacher or peers. • 1 min maths linked to this (can be at mental starter or plenary of lesson)	• The KPI is the objective the children must achieve by the end of the unit. It is not the only thing you will teach during that unit of work. You should use the curriculum coverage and calculation policy document to support you. • Every unit should start with a blue task that should take no longer than 15 min – if it is make them shorter – 6-10 questions is sufficient. • Use the blue task to differentiate and pitch challenge appropriately. • Use STAR approach to deliver maths – it does not need to be done in a set order and can be flexible to meet the pupils needs. • Apply is the most integral stage – ensure there is a range of applications. • There is NO requirement that you label each section of STAR for now. • There is NO requirement that you use any set resources. You can dip in and out of any resource banks to support your teaching as long as the full STAR approach is evident by the end of the unit of work. • No rubbing out in maths – crossing out or pink pen instead please. • You must follow the calculation policy written by Lynz – its written in the order for a reason and helps the pupils see how each method evolves into the next. • Every unit of work should end with a pink task to show progression. • All lessons must have ONE learning intention • Practical lessons do not have to be evidenced however there must be a balance and work is expected to be seen that shows the journey of STAR.

Talking about the curriculum - Pupils should be able to...

1. Tell me what the mental focus is
2. Tell me how we make sure we retain our learning over time
3. What they are learning that day and which part of STAR it is

STAR approach

See it – the teaching element

Try it – fluency and accuracy

Apply it – real life contexts

Reason it- explain the how and why , find errors

Snappy Maths - Saved on shared area as a pdf must follow the activities as stated.

TT rockstars

One baseline assessment a half term and recorded on the spreadsheet to track impact

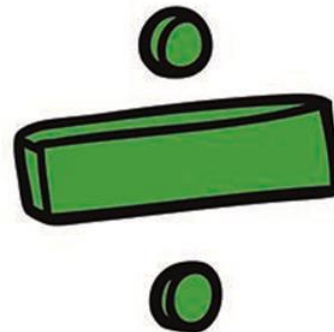
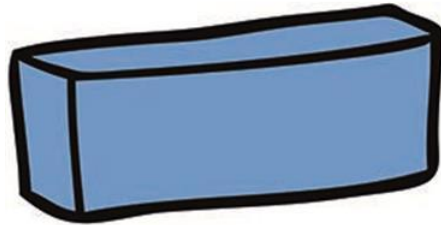
Completed 3 times a week

Assessment

Termly assessment week using nfer

Twice half termly arithmetic tests from testbase / twinkl / grammarsarus– with mixed questions not focused topics – results recorded on spreadsheet to track impact.

Year 1



Year 1 Autumn 1 – Amington Heath Maths Curriculum

	Week2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Block	Place value	Place value	Addition	Addition	subtraction	Subtraction	Shape
KPI's	count, read and write numbers to 100 in numeral use the language of: equal to, more than, less than (fewer), most, least		read, write and interpret mathematical statements involving addition (+), and equals (=) signs (appears also in Written Methods) to 100 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = * - 9$		read, write and interpret mathematical statements involving subtraction (-) and equals (=) signs (appears also in Written Methods) to 100 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = * - 9$ make sure they can identify whether it is add or subtract		recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles]
Key vocab	More / greater Less / fewer Equal	More / greater Less / fewer Equal	Addition Plus Altogether More/ greater / bigger Equal	Addition Plus Altogether More/ greater / bigger Equal	Subtraction Minus Take away Less/ smaller/ fewer Equal	Subtraction Minus Take away Less/ smaller/ fewer Equal	2D 3D Straight Curved Edges Corners
Arithmetic focus	given a number, identify one more and one less	given a number, identify one more and one less	represent and use number bonds and related subtraction facts within 10	represent and use number bonds and related subtraction facts within 10	add and subtract one-digit numbers to 20, including zero	add and subtract one-digit and two-digit numbers to 20, including zero	add and subtract one-digit and two-digit numbers to 20, including zero

Mental maths focus	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	given a number, identify one more and one less	use the language of: equal to, more than, less than (fewer), most, least	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	represent and use number bonds and related subtraction facts within 10	given a number, identify one more and one less
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Year 1 autumn 2

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Block	Shape 2d	Positional language	Time	Time	Shape 3d	Recognising fractions	Recognising fractions
KPI's	2-D shapes [e.g. rectangles (including squares), circles and triangles] Patterns	describe position, direction and movement, including half, quarter and three-quarter turns.	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	recognise and use language relating to dates, including days of the week, weeks, months and years	3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]. Patterns	recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	
Key vocab	2D Straight Curved Edges Corners	Left Right Turn Half turn Quarter turn Three quarter turn	Ordinal numbers Next Then After Today Yesterday	Days of the week Months of the year	3D Straight Curved Edges Corners	Half Quarter Equal Parts Whole	Half Quarter Equal Parts Whole

Arithmetic focus	add and subtract one-digit and two-digit numbers to 20, including zero	add and subtract one-digit and two-digit numbers to 20, including zero	represent and use number bonds and related subtraction facts within 10	represent and use number bonds and related subtraction facts within 10	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	given a number, identify one more and one less
Mental maths focus	given a number, identify one more and one less	use the language of: equal to, more than, less than (fewer), most, least	add and subtract one-digit and two-digit numbers to 20, including zero	given a number, identify one more and one less	represent and use number bonds and related subtraction facts within 10	use the language of: equal to, more than, less than (fewer), most, least	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Year 1 spring 1

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6
Block		Place value	Addition and subtraction	Measures	Comparing and estimating	Money
KPI's	Consolidation	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens 1 more/1less	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = * - 9$	measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]	recognise and know the value of different denominations of coins and notes
Key vocab		One, tens, hundreds, multiple, factor, lots of, groups of , more, less, compare, greater than, less than	Add, subtract, total, sum, less, fewer, minus, equals	Unit o measure, standardised, non-standardises, taller, shorter, longer,	Estimate, approximate, judge, solve, greater, smaller, less, more, most, fewest	Pound, pence, total, amount, spend, save, change

				smaller, biggest, smallest, cm		
Arithmetic focus	count in multiples of twos, fives and tens (copied from Number and Place Value)	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens (copied from Number and Place Value)	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens (copied from Number and Place Value)	represent and use number bonds and related subtraction facts within 20
Mental maths focus	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens (copied from Number and Place Value)	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens (copied from Number and Place Value)	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens (copied from Number and Place Value)

Year 1 spring 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Consolidation	multiplication	Multiplication	division	Division	Position and direction
KPI		Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays. Doubling, grouping small quantities.		Solve one-step problems involving division multiplication by calculating the answer using concrete objects, pictorial representations and arrays. Halving , sharing small quantities.		Describe position, direction and movement, including whole, half, quarter and three-quarter turns.
Key vocab		Multiply, group, equal groups, lots of, double, increase, times, array	Multiply, group, equal groups, lots of, double, increase, times, array	Divide, share, equally, equal groups, half, halving, give	Divide, share, equally, equal groups, half, halving, give	Turn, half, full, quarter, position, move, new, old, facing, top, middle, bottom, in front, behind, near, far,

						close, forwards, backwards
Arithmetic focus		count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens	add and subtract one-digit and two-digit numbers to 20, including zero	use the language of: equal to, more than, less than (fewer), most, least
Mental maths focus	represent and use number bonds and related subtraction facts within 20	use the language of: equal to, more than, less than (fewer), most, least	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens	add and subtract one-digit and two-digit numbers to 20, including zero

Year 1 summer 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	2D shape	3D shape	Place value	Addition/subtraction	Fractions	Consolidation
KPI	Recognise and name common 2d shapes in different orientations and sizes.	Recognise and name common 3d shapes in different orientations and sizes.	Recognise place value in numbers beyond 20, reading, writing, counting, comparing numbers up to 100.	Solve one-step problems involving addition and subtraction and missing number problems	Half and quarter as 'fractions of' discrete and continuous quantities by solving problems using shapes, objects and quantities.	
Key vocab	Rectangle, square, kite, circle, triangle, pentagon	Cuboid, cube, pyramid, cone, sphere	Ones, tens, hundreds, value, compare, greater than, less than	Add, total, sum, subtract, minus, less, fewer, give, unit of measure	Share, equal, half, quarter, parts, whole, length, quantity, shape	
Arithmetic focus	count to and across 100, forwards and	represent and use number bonds and	add and subtract one-digit and two-digit	count in multiples of twos, fives and tens	use the language of: equal to, more than,	

	backwards, beginning with 0 or 1, or from any given number	related subtraction facts within 20	numbers to 20, including zero		less than (fewer), most, least	
Mental maths focus	count in multiples of twos, fives and tens	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	represent and use number bonds and related subtraction facts within 20	add and subtract one-digit and two-digit numbers to 20, including zero	count in multiples of twos, fives and tens	

Year 1 summer 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Measures	Measures	Multiplication /division	Sequencing time	Telling time	Statistics- y2 prep
KPI	Compare, describe and solve practical problems for - mass/weight, capacity and volume. Measure and begin to record – mass/weight, capacity and volume	Compare, describe and solve practical problems for – height/length. Measure and begin to record – height and length time	Solve one-step problems involving multiplication and division =, by calculating the answer using concrete objects, pictorial representations and arrays with support of the teacher.	Sequence events in chronological order using language. Recognise and use language relating to dates, including days of the week, weeks, months and years.	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Tally Frequency table Pictogram Block chart
Key vocab	Heavy, light, heavier, lighter, full, empty, more, less	Long, short, longer, shorter, tall, taller, double, half	Group, share, quantities, equally, double, half, pattern, array	Before, after, next, today, yesterday, tomorrow, morning, afternoon, evening	Hour, minute, second, clock, past, to, o'clock	See above

Arithmetic focus	given a number, identify one more and one less Moving onto 10 more/less	add and subtract one-digit and two-digit numbers to 20, including zero	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens	add and subtract one-digit and two-digit numbers to 20, including zero
Mental maths focus	add and subtract one-digit and two-digit numbers to 20, including zero	given a number, identify one more and one less Moving onto 10 more/less	add and subtract one-digit and two-digit numbers to 20, including zero	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	represent and use number bonds and related subtraction facts within 20	count in multiples of twos, fives and tens

Year 2



Year 2 Autumn 1 – Amington Heath Maths Curriculum –

	Week2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Block	Place value	Place value	Addition	Subtraction	Addition/subtraction	multiplication	Division

KPI's	read and write numbers to at least 100 in numerals and in words 10s and 1s part whole 10s and 1s using addition Compare numbers using symbols		Written method from calculation policy	Written method from calculation policy	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals (=) signs	
Key vocab	Ones tens hundreds value column amount digit Part whole		Add sum total altogether amount addition more	Minus subtract take away less left	Inverse estimate check	Times multiply repeated addition array	Divide share equal groups division
Arithmetic focus	add and subtract one-digit and two-digit numbers to 20, including zero	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	Ten more ten less	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	Hundred more. Hundred less	One, ten, hundred – more or less- mental calculation
Mental maths focus	represent and use number bonds and related subtraction facts within 20	represent and use number bonds and related subtraction facts within 100	represent and use number bonds and related subtraction facts within 100	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Block	multiplication	Division	Fractions	Fractions	Positional	Shape	Shape
KPI's	show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals (=) signs		recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$	write simple fractions e.g. $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
Key vocab	Multiply, times, share, divide, equal, group, division, tables, groups, lots of, inverse, reasoning	Multiply, times, share, divide, equal, group, division, tables, groups, lots of, inverse, reasoning	Denominator, numerator, whole, part, third, half, quarter,	Denominator, numerator, whole, part, third, half, quarter, Equivalent, greater than, less than	Clockwise, anti-clockwise, turn, rotate, position, sequence, pattern, direction, movement	Line of symmetry, vertices, faces, edges, prisms, quadrilaterals, polygons, sides,	Line of symmetry, vertices, faces, edges, prisms, quadrilaterals, polygons, sides,
Arithmetic focus	Hundred more. Hundred less	One, ten, hundred – more or less- mental calculation	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	represent and use number bonds and related subtraction facts within 100	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	Round to the nearest ten	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Mental maths focus	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	One, ten, hundred – more or less- mental calculation	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	represent and use number bonds and related subtraction facts within 100	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	Round to the nearest ten

Year 2 spring 1

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6
Block		Place value	Addition and subtraction	Position and direction	Measure	Measure
KPI's	Consolidation	identify, represent and estimate numbers using different representations	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) measure the perimeter of simple 2-D shapes	
Key vocab		Estimate, approximate, judge, show, prove, tell, explain, justify	Inverse, operation, addition, subtraction, total, sum, fewer, more, less, greater, change, left	Move, rotate, turn, clockwise, anti-clockwise, angle, right angle, half turn, full turn, quarters	Measure, accurate, greater, less, smaller, taller, shorter, heavier, fuller, calculate	
Arithmetic focus	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	know the number of seconds in a minute and the number of days in each month, year and leap year	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	know the number of seconds in a minute and the number of days in each month, year and leap year	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward
Mental maths focus	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	know the number of seconds in a minute and the number of days in each month, year and leap year	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	know the number of seconds in a minute and the number of days in each month, year and leap year

Year 2 spring 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Consolidation	Money	Money	Statistics	Statistics	Time
KPI		Recognise and use symbols for pounds and pence; combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and comparing categorical data.	Compare interval of time Know the number of minutes in an hour and the number of hours in a day
Key vocab		Coin, amount, total, change, value, combination, symbol, representation, equal		Data, amount, vote, tally, total, sum, different, most popular, least popular		Minute, seconds, hours, intervals, to, past, o'clock, quarter, half, longer, shorter, quicker, slower, faster
Arithmetic focus	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	One, ten, hundred – more or less- mental calculation	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward
Mental maths focus	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	One, ten, hundred – more or less- mental calculation	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

Year 2 summer 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Time	2D shape	3d shape	addition/subtraction	Multiplication/division	Consolidation
KPI	Tell and write the time to 5 minutes, including quarter past/to the hour and draw the hands on a clock face to show these.	Identify and describe properties of 2D shapes, including the number of sides and lines of symmetry. Compare and sort common 2d and 3d shapes	Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces. Identify 2D shapes on the surface of 3d shapes	Add and subtract numbers Two digit and ones Two digit and tens Two two digit Adding three digit numbers	Solve problems involving multiplication and division Show that multiplication can be done in any order and division of one number by another cannot	
Key vocab	Minute, seconds, hours, intervals, to, past, o'clock, quarter, half, longer, shorter, quicker, slower, faster	Sides, lines of symmetry, quadrilaterals, polygons, properties	Sides, edges, faces, vertices, cuboids, prisms, cones, properties	Inverse, check, place value, commutative, add, subtract, total, sum, left, change, difference	Multiply, divide, groups, lots, share, qual, commutative, divisor, array, odd and even	
Arithmetic focus	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	One, ten, hundred – more or less- mental calculation	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	One, ten, hundred – more or less- mental calculation
Mental maths focus	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	One, ten, hundred – more or less- mental calculation	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

Year 2 summer 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Place value	Measures- lengths/heights	Measures – mass/capacity/temp	Fractions	Fractions	Position and direction
KPI	Use place value and number facts to solve problems	Choose and use appropriate standard units to estimate and measure Compare and order and record results using <> and =		Recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}$ of a length, shape, set of objects and quantity	Write simple fractions for example $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	Order and arrange combinations of mathematical objects in patterns and sequences
Key vocab	Ones, tens, hundreds, value, amount, compare, order, greater than, less than, estimate, representation	M, cm, ruler, metre, height, length, compare, taller, shorter, longer,	Degrees litres, millilitres, full, empty, capacity, temperate, hottest, warmer, cooler, coldest	Denominator, numerator, part, whole, used, left, quantity, shape, amount, equivalent		Orientation, turn, rotate, move, clockwise, anti-clockwise
Arithmetic focus	One, ten, hundred – more or less- mental calculation	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens
Mental maths focus	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	One, ten, hundred – more or less- mental calculation	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables,

			ones * a two-digit number and tens			including recognising odd and even numbers
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Year 3



Year 3 autumn 1

	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Block	Place value	Addition	subtraction	multiplication	division	statistics
KPI	Recognise the place value of each digit in a three-digit number.	Add numbers with up to three digits, using formal written methods of column	Subtract numbers with up to three digits, using formal written methods of	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including two digit numbers times one digit numbers,		Interpret and present data using bar charts, pictograms and tables

	Compare and order numbers up to 1000.	addition and subtraction	column addition and subtraction	using mental and progressing to formal written methods		
Key vocab	One tens hundreds thousands more less greater than less than equal to order smallest largest	Add total, place value, symbol, equals, sum, altogether,	Subtract, take away, minus, difference, place value, equals, unit of measure	Product, multiply, times, groups of, commutative	Divide, division, share, share equally, groups of, lots of	Data, discrete, popular, difference, compare, tall, frequency,
Arithmetic focus	Find ten or 100 more or less than a given number	Count in multiples of 2,5,10	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Counting forwards and backwards in tenths	Rounding to nearest 10 and 100
Mental maths focus	Rounding to nearest 10 and 100	Find ten or 100 more or less than a given number	Count in multiples of 2,5,10	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Counting forwards and backwards in tenths

Year 3 autumn 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Shape	Geometry	fractions	Fractions	Measurement	Measurement
KPI	Draw 2d shapes and make 3d shapes using modelling materials. Recognise 3d shapes	Simple co-ordinates in one quadrant	Recognise, find and write fractions of a discrete set of objects: unit fractions	Compare and order fractions with the same denominator	Measure, compare, add and subtract lengths m,cm,m	Measure, compare mass and subtract mass k and g and volume/capacity l/ml

	in different orientations and describe them		and non-unit fractions with small denominations			
Key vocab	Vertices, edges, faces, sides, nets, perspective, orientation	X axis, y axis, quadrant, plot, read, co-ordinate	Numerator, denominator, part, whole, unit, non-unit	Greater than, less than, equal to, equivalent, value, denominator, numerator	Accurate, measure, length, height, longest, difference, shortest, comparison	Accurate, measure, weigh, mass, volume, capacity, liquid, most, least, difference
Arithmetic focus	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Counting forwards and backwards in tenths	Count in multiples of 4,8,50 and 100
Mental maths focus	Count in multiples of 2,5,10	Metal addition and subtraction calculations three-digit	Recall the multiplication and division facts for 3,4 and 8 times tables	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Counting forwards and backwards in tenths

Year 3 spring 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Place value	Addition and subtraction	multiplication	Division	Statistics	Statistics
KPI	Compare and order numbers up to 1000	Add and subtract numbers with up to three digits, using	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including		Interpret and present data using bar charts, pictograms and tables	Solve one-step and two-step questions using information

	Solve number problems and practical problems involving these ideas	formal written methods of column addition and subtraction Estimate the answer to a calculation and use the inverse to check	two digit numbers times one digit numbers, using mental and progressing to formal written methods			presented in scaled bar charts, pictograms and tables.
Key vocab	One tens hundreds thousands more less greater than less than equal to order smallest largest	Add total, place value, symbol, equals, sum, altogether, Subtract, take away, minus, difference, place value, equals, unit of measure	Product, multiply, times, groups of, commutative	Divide, division, share, share equally, groups of, lots of	Data, discrete, popular, difference, compare, tall, frequency,	Data, discrete, popular, difference, compare, tall, frequency,
Arithmetic focus	Recall the multiplication and division facts for 3,4 and 8 times tables	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Metal addition and subtraction calculations with two digit numbers	Counting forwards and backwards in tenths	Recall the multiplication and division facts for 3,4 and 8 times tables
Mental maths focus	Rounding to nearest 10 and 100	Recall the multiplication and division facts for 3,4 and 8 times tables	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Metal addition and subtraction calculations with two digit numbers	Counting forwards and backwards in tenths

Year 3 Spring 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Consolidation	Roman numerals and place value	Estimation	time	time	Shape
KPI		Roman numeral I to XII Solve problems related to place value y3 objectives	Identify, represent and estimate numbers using different representations.	Tell and write the time from an analogue clock, including	Estimate with increasing accuracy to the nearest minute; record and compare time in terms of	Recognise angles a property of shapes or a description of a turn.

					seconds, minutes and hours.	Identify right-angles and whether and angle is greater than or less than a right angle
Key vocab		Value, ones, tens, hundreds, convert, represent	Identify, justify, analyse, consider, compare, estimate, round	To, past, analogue, o'clock, nearest, seconds, minutes, hours, days, weeks,	Measure, record, time, passed, estimate, seconds, hours, minutes, days	Angle, right-angle, acute, obtuse, properties, edges, sides, vertices
Arithmetic focus	Rounding to nearest 10 and 100	Recall the multiplication and division facts for 3,4 and 8 times tables	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Mental addition and subtraction calculations with two digit numbers	Counting forwards and backwards in tenths
Mental maths focus	Count in multiples of 4,8,50 and 100	Rounding to nearest 10 and 100	Recall the multiplication and division facts for 3,4 and 8 times tables	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Mental addition and subtraction calculations with two digit numbers

Year 3 summer 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Fractions	Fractions	Measures	Measures	Geometry	Consolidation
KPI	Recognise and show, using diagram, equivalent fractions with small denominators	Add and subtract fractions with the same denominator within one whole Solve problems involving the y3 fraction objectives	Measure, compare, add and subtract: lengths m/cm/mm; mass kg/g and volume/capacity l/ml	Measure the perimeter of simple 2d shapes	Describe the properties of 2d and 3d shapes using accurate language, including lengths of line and acute and obtuse for angles	

					greater or lesser than a right angle. of line and acute and obtuse for angles greater or lesser than a right angle.	
Key vocab	Greater than, less than, equal to, equivalent, value, denominator, numerator	Greater than, less than, equal to, equivalent, value, denominator, numerator	Measure, accurate, compare, difference, calculate, total, distance, weight, amount	Perimeter, outside, total, measure, length, degree of accuracy, unit of measure	Obtuse, acute, angle, right-angle, less, more, sides, vertices, faces, lines of symmetry	
Arithmetic focus	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Rounding to nearest 10 and 100	Count in multiples of 4,8,50 and 100
Mental maths focus	Counting forwards and backwards in tenths	Find ten or 100 more or less than a given number	Count in multiples of 4,8,50 and 100	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Rounding to nearest 10, 100 and 1000

Year 3 summer 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Money	Shape	Addition/subtraction	Multiplication/division	Measures	statistics
KPI	Add and subtract amounts of money to give change, using both 3 and p in practice contexts	Identify horizontal and vertical lines and pairs or perpendicular and parallel lines	Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction	Solve problems, including missing number problems, involving multiplication and division, including positive integer	Consolidation of which ever measures needs additional time in order to be fully embedded to access the next year's curriculum	Solve one-step and two-step questions using information presented in scaled bar charts, pictograms and tables.

				scaling problems and correspondence problems in which n objects are connected to m objects		
Key vocab	Pounds, pence, cost, change, total, sum, altogether, left,	Parallel, perpendicular, distance, equal, right-angle, meet	Add, subtract, minus, sum, total, difference, altogether, fewer, less, change,	Product, times, multiply, divide, share, groups, equal, split		Data, discrete, popular, interpret, retrieve, scales, axis, represent, unit of measure
Arithmetic focus	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Rounding to nearest 10, 100 and 1000	Count in multiples of 4,8,50 and 100	Find ten or 100 more or less than a given number	Metal addition and subtraction calculations with two digit numbers
Mental maths focus	Counting forwards and backwards in tenths	Metal addition and subtraction calculations with two digit numbers	Recall the multiplication and division facts for 3,4 and 8 times tables	Rounding to nearest 10, 100 and 1000	Count in multiples of 4,8,50 and 100	Find ten or 100 more or less than a given number

Year 4



Year 4 Autumn 1 –

	Week2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Block	Place value	Addition	subtraction	Position and movement	Multiplication	Multiplication	Statistics

KPI's	order and compare numbers beyond 1 000	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why		describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down	Written methods from calculation policy multiply two-digit and three-digit numbers by a one-digit number using formal written layout		interpret and present discrete and continuous data using appropriate graphical methods, including bar chart
Key vocab	More/greater than, less than, equals, ascending, descending, thousands, hundreds, tens, ones, represent, partition.	Thousands, hundreds, tens, ones, column method, regroup, calculation, add, altogether, sum, more, plus, commutative.	Thousands, hundreds, tens, ones, column subtraction, minus, take away, exchange, regroup.	Position, movement, left, right, up, down, 2D grid, coordinates, x-axis, y-axis, translate.	Grid method, column method, array, row, column, partition, regroup, commutative.	Grid method, column method, array, row, column, partition, regroup, commutative, factor.	Scale, x-axis, y-axis, grid, interpret, present, bar chart, pictogram, table, tally chart, time graph, data, compare, sum, difference
Arithmetic focus	count from 0 in multiples of 4, 8, 50 and 100	Multiply by 10, 100 and 1000	Divide by 10, 100, 1000	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recognise and use factor pairs and commutativity in mental calculations	add and subtract amounts of money to give change, using both £ and p in practical context
Mental maths focus	add and subtract numbers mentally, * a three-digit number and ones* a three-digit number and tens* a three-digit number and hundreds	Rounding whole numbers to 10, 100 and 1000	Rounding whole numbers to 10, 100 and 1000	round decimals with one decimal place to the nearest whole number	round decimals with one decimal place to the nearest whole number	add and subtract amounts of money to give change, using both £ and p in practical contexts	count in multiples of 6, 7, 9, 25 and 1 000

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Block	Division	Geometry	Shape	Positional	FDP	FDP	time
KPI's	to divide quantities, including non-unit fractions where the answer is a whole number	identify acute and obtuse angles and compare and order angles up to two right angles by size	identify lines of symmetry in 2-D shapes presented in different orientations	describe positions on a 2-D grid as coordinates in the first quadrant Addition and Subtraction	recognise and show, using diagrams, families of common equivalent fractions	add and subtract fractions with the same denominator	read, write and convert time between analogue and digital 12 and 24
Key vocab	Grouping, sharing, divisor, derive, remainder, partitioned arrays, bus stop, short division.	Acute, obtuse, right angle, perpendicular lines, parallel lines.	2D, 3D shapes, horizontal, vertical, vertex/vertices, face, side.	Thousands, hundreds, tens, ones, column method, regroup, calculation, add, altogether, sum, more, plus, commutative. column subtraction, minus, take away, exchange, regroup.	Numerator, denominator, equivalent fraction, unit-fraction, non-unit fraction, whole, order, compare.	Numerator, denominator, equivalent fraction, unit-fraction, non-unit fraction, add, subtract, order, compare.	Minute, hour, o'clock, quarter past, half past, quarter to, past, to, digital, twenty-four hour, digital, analogue.
Arithmetic focus	count in multiples of 6, 7, 9, 25 and 1 000	count in multiples of 6, 7, 9, 25 and 1 000	Dividing by 10, 100 and 1000.	Recall multiplication and division facts for 4- and 8-times tables.	Factor pairs	Rounding whole numbers to 10, 100 and 1000	Round decimals.
Mental maths focus	recognise and use factor pairs and commutativity in mental calculations	recognise and use factor pairs and commutativity in mental calculations	Giving change	count in multiples of 6, 7, 9, 25 and 1 000		Multiply by 10, 100 and 1000	Divide by 10, 100, 1000

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6
Block		Place value	Addition and subtraction	Multiplication and division	Measure	Measure
KPI's	Consolidation	Recognise the place value of each digit in 4 digit and order and compare numbers beyond 1000.	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	See calculation policy	estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing)	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Key vocab		One, tens, hundreds, thousands, value, amount, digit, integer, compare, order	RUCSAC, addition, subtraction, difference, total, sum, method, operation	Grid method, place holder, known facts, multiplication, partition,	Estimate, calculate, pounds, pence, total, change, cost	Measure, accurate, rectilinear, regular, compound, total, sum
Arithmetic focus	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12
Mental maths focus	recall multiplication and division facts for multiplication tables up to 12×12	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Consolidation	Place value	Four operations	Statistics	Statistics	Focus on weakest four operation written method based on AFL
KPI		Solve problems involving y4 place value objectives Read roman numerals to 100	Solve two-step problems in contexts, deciding which operations and methods to use and why	Interpret and present discrete and continuous data using appropriate graphical methods including bar charts and line graphs.	Solve comparison, sum and difference problems using information presented in bar charts, pictograms and other graphs.	
Key vocab		Represent, convert, symbol, compare, order, interpret, apply	Apply, rucasac, choose, partition, method, estimate, check, unit of measure	Axis, continuous, discrete, scales, titles, popular, difference, sum, total, chart, graph, key		
Arithmetic focus	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12	Round any number to 10, 100 or 1000	Multiply and divide by 10 and 100	recall multiplication and division facts for multiplication tables up to 12×12	Recognise and use factor pairs and commutatively in mental calculations
Mental maths focus	Multiply and divide by 10 and 100	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12	Round any number to 10, 100 or 1000	Multiply and divide by 10 and 100	recall multiplication and division facts for multiplication tables up to 12×12

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	FDP	FDP	Measures	Measures	Shape	Shape
KPI	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	Recognise and write decimal equivalents Solve simple measure and money problems involving fractions and decimals to 2dp	convert between different units of measure Estimate, compare and calculate different measures	Measure and calculate the perimeter of a rectilinear figure in centimetres and metres Find the area of rectilinear shapes by counting squares	Compare and classify geometric shapes, including quadrilateral and triangles based on their properties and sizes. identify lines of symmetry in 2d shapes presented in different orientations	Identify acute and obtuse angles and compare and order angles up to two right angles side by side.
Key vocab	Fraction, part, whole, equivalent, denominator, numerator, decimal, tenths, hundredths, partition, value		Estimate, convert, measure, accurate, standard, non-standard, area, perimeter		Edges, sides, vertices, lines of symmetry, angles	Acute, obtuse, right-angle, protractor, measure, compare
Arithmetic focus	Count up and down in hundredths Round decimals to nearest whole number	Round any number to 10, 100 or 1000	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12	Multiply and divide by 10 and 100	Recognise and use factor pairs and commutatively in mental calculations
Mental maths focus	recall multiplication and division facts for multiplication tables up to 12×12	Count up and down in hundredths Round decimals to nearest whole number	Round any number to 10, 100 or 1000	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	recall multiplication and division facts for multiplication tables up to 12×12	Multiply and divide by 10 and 100

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Position and direction	Position and direction	Four operations	Time	Statistics	Measures
KPI	Describe positions on a 2d grid as co-ordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down	Plot specified points and draw sides to complete a given polygon	- Two-step problems - Integer scaling	Read, write and convert between analogue and digital 12 and 24 hour clocks	Pupils begin to relate the graphical representation of data to recording change over time.	Convery between different units of measure
Key vocab	Translate, move, up, down, left, right, reposition	Plot, co-ordinate, x axis, y axis, quadrants, positive, negative	See add, subtract, multiply and divide	Clock, time, convert, pm, am, to, past, difference,	Timetable, arrive, depart, continuous data,	Height, weight, mass, volume, capacity, temperature, money, time
Arithmetic focus	Count up and down in hundredths Round decimals to nearest whole number	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	Round any number to 10, 100 or 1000	recall multiplication and division facts for multiplication tables up to 12×12	Recognise and use factor pairs and commutatively in mental calculations	recall multiplication and division facts for multiplication tables up to 12×12
Mental maths focus	Recognise and use factor pairs and commutatively in mental calculations	Count up and down in hundredths Round decimals to nearest whole number	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	Round any number to 10, 100 or 1000	recall multiplication and division facts for multiplication tables up to 12×12	Count up and down in hundredths Round decimals to nearest whole number

Year 5



Year 5 Autumn 1 – Amington Heath Maths Curriculum

	Week2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Block	Place value	Addition	subtraction	multiplication	Division	Statistics	Statistics

KPI's	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit compare numbers with the same number of decimal places up to two decimal places	Written method from calculation policy add and subtract whole numbers with more than 4 digits, including using formal written methods solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		Written method multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	Written method divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	complete, read and interpret information in bar chart – discrete and grouped data time graph table timetable- if time	
Key vocab	Place value chart, value, digit, number, HTh, TTh, Th, H, T, O, column, value, compare, decimal, decimal point.	Digit, number, column addition, add, sum, total, altogether, place value, addition symbol, exchange.	Digit, number, column subtraction, subtract, difference between, take away, minus, place value, subtraction symbol, exchange, bigger, smallest.	Multiply, multiplication, times, multiple of, lots of, repeated addition, times table, digit, place value, product.	Divide, division, shared between, share, shared equally, group, groups of remainder.	Data, information, tally, table, bar chart, line graph, axes, axis, labels, title, popular, how many more, most common, least common, difference between.	
Arithmetic focus	add and subtract numbers mentally with increasingly large numbers	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	establish whether a number up to 100 is prime and recall prime numbers up to 19	count up and down in tenths and hundredths	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
Mental maths focus	round any number up to 1 000 000 to the nearest 10, 100, 1 000	round any number up to 1 000 000 to the nearest 10 000 and 100 000	Round decimals to nearest whole number	count in multiples of 6, 7, 9, 25 and 1 000	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	count in multiples of 6, 7, 9, 25 and 1 000

Year 5 autumn 2

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Block	FDP	FDP	FDP	Positional		shape	Geometry
KPI's	add and subtract fractions with the same denominator and multiples of the same number e.g. denominators should be multiples of the same number so can easily find common denominator by only changing one fraction.	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $2/5 + 4/5 = 6/5 = 11/5$)	multiply proper fractions and mixed numbers by whole number	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed		identify 3-D shapes, including cubes and other cuboids, from 2-D representations	draw given angles, and measure them in degrees (o)
Key vocab	Numerator, denominator, fraction, non-unit fraction, add, subtract, take away, equal to, total, difference between, altogether, common denominator, multiple.	Mixed number fraction, improper fraction, numerator, denominator, fraction, divide, multiply, add, subtract.	Mixed number fraction, improper fraction, numerator, denominator, fraction, divide, multiply, add, subtract, whole number, digit.	Plot, coordinate, shape, triangle, square, rectangle, vertices, point, count, translate, reflect, reflection, translation, axis, axes.	Plot, coordinate, shape, triangle, square, rectangle, vertices, point, count, translate, reflect, reflection, translation, axis, axes.	Cube, cuboid, sphere, prism, pyramid, triangular pyramid, square based pyramid, circle, square, rectangle, pentagon, hexagon, vertices, edges, faces.	Right angle, acute angle, obtuse angle, greater than, less than, degrees, protractor, reflex.
Arithmetic focus	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	count up and down in tenths and hundredths	count up and down in tenths and hundredths	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Multiplying numbers by a multiple of 10 e.g. $73 \times 60 = 73 \times 6 \times 10$.	Rounding numbers to the nearest 1000, 10,000 and 100,000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Mental maths focus	count in multiples of 6, 7, 9, 25 and 1 000	count in multiples of 6, 7, 9, 25 and 1 000	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	add and subtract numbers mentally with increasingly large numbers	count up and down in tenths and hundredths	Round decimals to nearest whole number	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)

Year 5 spring 1

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6
Block		Place value	Addition and subtraction	Multiplication and division	Time	
KPI's	Consolidation	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days solve problems involving converting between units of time	
Key vocab		Integer, negative, positive, value, zero, greater than, less than , difference, add =, subtract	RICSAC, choose, calculate, inverse, check, estimate	Round, remainder, left, unit of measure, calculate, estimate, approximate	Convert, unit of measure, seconds, hours, minutes, days, week, months, years, leap year	
Arithmetic focus	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
Mental maths focus	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

Year 5 spring 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Consolidation	Roman numerals	Decimals	Area and perimeter	Area and perimeter	Capacity and mass
KPI		Read roman numerals to 1000 and recognise years written in Roman numerals	Read and write decimal numbers as fractions. Round decimals with two decimal places to whole and one decimal place Read, write, order and compare numbers with up to 3dp	Measure and calculate the perimeter of composite rectilinear shapes in cm and m	Calculate the area of rectangles (including squares), and including using standard units. Estimate the area of irregular shapes	Understand the approximate equivalences between metric and common imperial measures such as inches, pounds and pints. Estimate volumes and capacity.
Key vocab		Represent, value, compare, order, recognise, convert	Place value, tenths, hundredths, thousandths, nearest, round, compare, order	Composite, regular, irregular, perimeter, area, volume, measure, accurate, unit of measure, convert, compare, order, estimate, round, approximate		Metric, imperial, convert, volume, capacity, mass, length, height
Arithmetic focus	Add and subtract numbers mentally with increasingly large numbers	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0.	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
Mental maths focus	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	Add and subtract numbers mentally with increasingly large numbers	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Interpret negative numbers in context, count forwards and backwards with positive and negative	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)

				whole numbers, including through 0.		And Prime numbers /composite numbers
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Year 5 summer 1

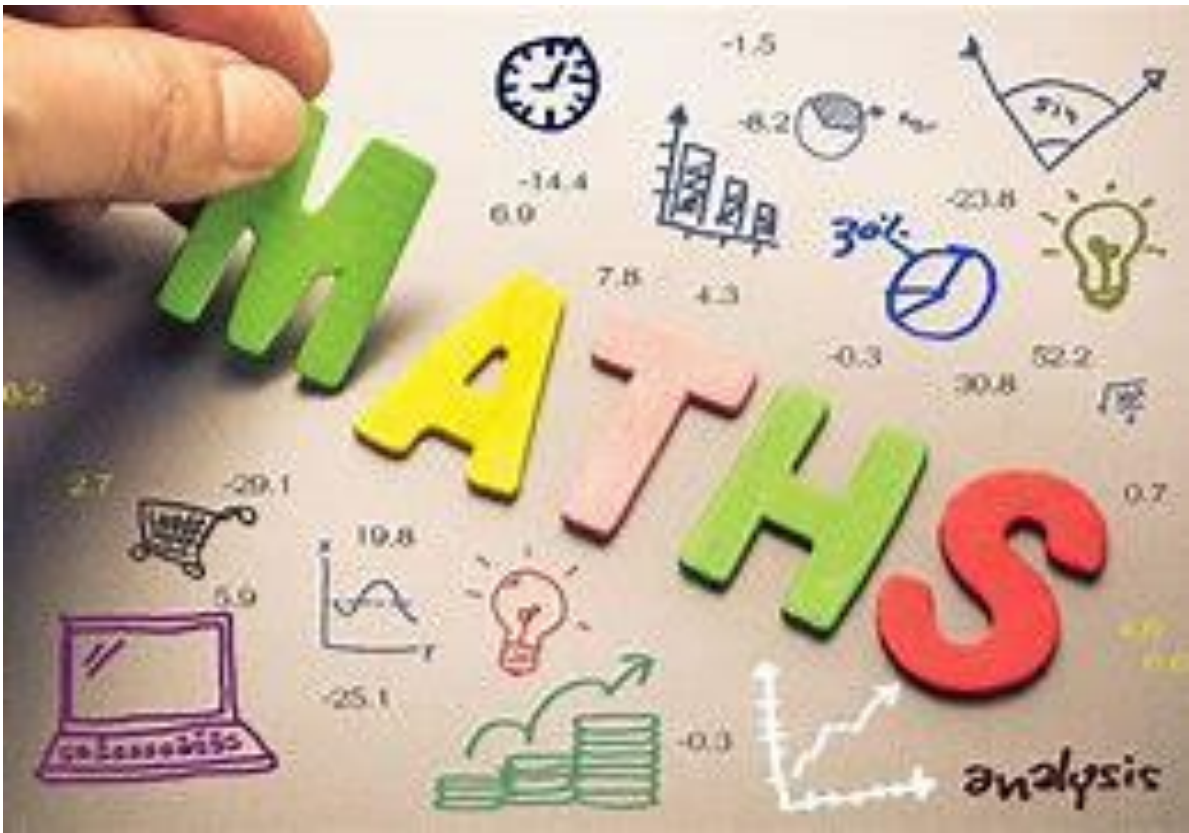
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Percentages	Percentages	Geometry	Shape	Addition/subtraction	Measures
KPI	Recognise the per cent symbol and understand that percent relates of parts of a hundred., write percentages as a fraction with denominator 100 and as a decimal.	Recognise the per cent symbol and understand that percent relates of parts of a hundred., write percentages as a fraction with denominator 100 and as a decimal.	Draw given angles and measure them in degree Use properties of rectangles to deduce facts and find missing lengths and angles Identify angles at a point, straight line and 90 degrees	Identify 3d shapes including cubes and other cuboids from 2d representations	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Use all four operations to solve problems involving measure using decimal notation, including scaling
Key vocab	Percentage, part, whole, represent, equivalent, decimal, fraction, value, convert,		Angle, acute, obtuse, right-angle, opposites, lengths, whole turn, straight line, identify	Nets, faces, vertices, edges, represent, orientation, visualise	RUCSAC, multistep, unit of measure, choose, calculate, inverse, estimate	Height, weight, mass, capacity, volume, convert, nearest, standard, metric, imperial, scale
Arithmetic focus	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0.	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Add and subtract numbers mentally with increasingly large numbers	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) And Prime numbers /composite numbers
Mental maths focus	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0.	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Add and subtract numbers mentally with increasingly large numbers	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

Year 5 summer 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Multiplication/division	Time	Statistics	FDP	Geometry	Place value
KPI	Solve problems involving addition, subtraction, multiplication and division and a combination. including scaling by simple fractions.	Solve problems involving converting between units of time Complete, read and interpret information in tables Bus/train Timetables	Solve comparison, sum and difference problems using information presented in a line graph	Solve problems which require knowing percentage, decimal equivalents and those fractions with a denominator of a multiple of 10 or 25	Identify and represent the position of a shape following a reflection or translation	Solve number problems and practical problems that involve y5 place value objectives
Key vocab	RUCSAC< method, calculate, choose, estimate, inverse, order of operations, brackets	Read, interpret, time, before, after, arrive by, depart by, convert	Line graph, axis, data, scale, presented, identify, interpret, read	Denominator, numerator, part, whole, percentage, fraction, decimal, equivalent, convert	Reflect, translate, move, orientation, quadrant, co-ordinate. Position, movement	O, T, H, Th, TTth, HTh, M, tenths, hundredths
Arithmetic focus	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	Add and subtract numbers mentally with increasingly large numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0.	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) And Prime numbers /composite numbers	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Mental maths focus	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram	Round any number up to 1,000,000 to the nearest 10/100/1000/10,000/100,000	Add and subtract numbers mentally with increasingly large numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram

		and kilogram; litre and millilitre)			whole numbers, including through 0.	and kilogram; litre and millilitre)
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Year 6



Year 6 Autumn 1 – Amington Heath Maths Curriculum

[illegible]

Autumn 2	Week2	Week 3	Week 4	Week 5	Week 6	Week 7
Block	FDP - Add and subtract fractions same and diff deminonators (including mixed numbers) - Simplify - Mixed to improper and back - Fractions of amount	FDP - Multiply fractions by fractions - Multiply fraction by whole - Divide fraction by whole	FDP - Equivalents FDP - Find percentages of amounts - Increase by percentage - Decrease by percentage	Statistics - Pictogram - Tally - Frequency table - Bar chart - Grouped bar chart	Statistics - Line graph - Time line graph - Pie chart	Position - Plotting points in 4 quadrants - Missing points of shapes in four quadrants - Symmetry revision
KPI's						
Arithmetic focus - Gaps from arithmetic test analysis - Fractions a HIGH focus						
Mental maths focus - Using gap analysis on test to support						

Year 6 spring 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Position Translation Reflection	Ratio and proportion Reading and interpreting ratio Using ratio to find amounts	Scaling Using ration and proportion to scale up and down	Time Reading and writing analogue Reading and writing digital Convert between digital and analogue Diff time amounts Adding, subtracting and finding the difference using a number line	Time Timetables and worded	Four operations Multi-step problems and written methods for both reasoning and arithmetic Bodmas
KPI						
Key vocab						
- Arithmetic focus Gaps from arithmetic test analysis						
- Fractions a HIGH focus						
Mental maths focus						
- Using gap analysis on test to support						

Year 6 spring 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Shape	Shape	Geometry	Algebra	Revision	revision
KPI	Properties	Area	Lengths	Missing values		
Key vocab	Symmetry	Volume	Missing lengths	Bodmas		

Arithmetic focus	Parts of a circle Perimeter		Convert between units of measure	Squences Nth term		
Mental maths focus						
Shape of the week						

Year 6 summer 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Revision	Revision	SATS	Problem solving / transitional maths Personalised online tuition to close gaps for secondary		
KPI						
Key vocab						
Arithmetic focus						
Mental maths focus						
Shape of the week						

Year 6 summer 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Block	Arithmetic challenge week	Enterprise challenge		Investigations		End of year production
KPI						Transition project
Key vocab						
Arithmetic focus						
Mental maths focus						
Shape of the week						