

Y2 Mathematics	TERM 1A		TERM 1B		TERM 2A		TERM 2B		TERM 3A		TERM 3B	
	Number: Place value Number: Addition and subtraction		Number: Addition and subtraction Number: Multiplication and division		Geometry: Properties of shapes Number: Multiplication and division Number: Fractions, decimals, and percentages		Measurement		Geometry: Position and direction Statistics		Number: Place value Number: Addition and subtraction Number: Multiplication and division	
	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills
	To know ten ones are called one ten.	To be able to count in steps of 2,3,5 from 0, and in tens from any number, forward and backward.	To know subtraction is partitioning a whole into two or more parts (partitioning), decreasing the whole (reduction) or finding the difference between two parts (difference).	To be able to solve problems with subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.	To know a 2D shape has height and width; it is completely flat and you cannot pick it up.	To be able to identify and describe the properties of 2D shapes, including the number of sides, and line symmetry in a vertical line.	To know there are 60 seconds in a minute, 60 minutes in an hour, 24 hours in a day, 365 days in a (non-leap) year and 12 months in a year.	To be able to compare and sequence intervals of time.	To know to turn to our left for anti-clockwise.	To be able to 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).	To know halving is splitting the whole into two equal parts.	To be able to halve by splitting the whole into two equal parts.
	To know a two-digit number is made up of tens and ones.	To be able to recognise the place value of each digit in a two-digit number (10s, 1s).	To know that when subtracting a tens number (10,20,30), the ones digit will not change.	To be able to apply my increasing knowledge of mental and written methods.	To know an object that has height, width and depth, like any object in the real world is a 3D shape.	To be able to identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.	To know time can be measured using a clock, watch, calendar and in other ways.	To be able to tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	To know to turn to our right for clockwise.	To be able to order and arrange combinations of mathematical objects in patterns and sequences.	To know my multiplication and division facts related to the 2, 5 and 10 times table.	To be able to recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
	To know a number can be partitioned in many different ways – not just (for a two-digit number) into tens and ones.	To be able to identify, represent and estimate numbers using different representations, including the number line.	To know the language of minuend – subtrahend = difference.	To be able to recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100.	To know a line of symmetry is a line that cuts a shape exactly in half.	To be able to identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].	To know the left-hand side of the clock shows to times (e.g. five to 6) and the right-hand side shows past times (e.g. ten past 5).	To be able to choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.	To know there are four quarter turns in a full turn.	To be able to interpret and construct simple pictograms, tally charts, block diagrams and tables.		
	To know < means less than.								To know a quarter turn is the same as a right angle.			To be able to recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.
	To know > means greater than.	To be able to compare and order numbers from 0 up to 100; use <, > and = signs.	To know doubling is adding the same number twice.	To be able to subtract numbers using concrete objects, pictorial representations and mentally, including: two-digit number and 1s; two-digit number and 10s; 2 two-digit numbers; adding 3 one-digit numbers.	To know one structure of division is grouping (quotative) where a whole (the dividend) is split into equal groups (the divisor) and the number of groups are found (quotient).	To be able to identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].	To know the long hand is the minute hand.	To be able to compare and sort common 2D and 3D shapes and everyday objects.	To know grams (g) are a unit of measure.	To be able to ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.		
	To know = means the same as, balanced, equal to or equivalent.	To be able to read and write numbers to at least 100 in numerals and in words.	To know halving is splitting the whole into two equal parts.		To know another structure of division is sharing (partitive) where the whole (the dividend) is shared equally between a given number of parts (the divisor) and the part size is found (quotient).	To be able to recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	To know the shorter hand is the hour hand.	To be able to recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	To know there are 1000g in a kilogram (kg).	To be able to compare and order lengths, mass, volume/capacity and record the results using >, < and =.		
	To know increasing means from smallest to largest.	To be able to use place value and number facts to solve problems.	To know one structure of multiplication is repeated addition (e.g. 3x4 is 4 + 4 + 4 or 3 +3 + 3 + 3).	To be able to show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot.					To know we use g to measure lighter objects and kg to measure heavier objects.	To be able to recognise and use symbols for pounds (£) and pence (p).		
	To know decreasing means from largest to smallest.	To be able to solve problems with addition using concrete objects and pictorial representations, including those involving numbers, quantities and measures.	To know multiplication is commutative – the position of the factors can change and the product stays the same.	To be able to recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	To know fractions are a part of something.	To be able to calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.			To know different things/objects can be used to measure length.	To be able to combine amounts to make a particular value.		
	To know all number bonds to 20.	To be able to apply increasing knowledge of mental and written methods.	To know one structure of division is grouping (quotative) where a whole (the dividend) is split into equal groups (the divisor) and the number of groups are found (quotient).		To know fractions can be part of one thing or part of a group of things.				To know centimetres (cm) are a unit of measure.	To be able to find different combinations of coins that equal the same amounts of money.		
	To know addition is bringing together two (or more) parts to make a whole (aggregation).	To be able to recall and use addition facts to 20 fluently, and derive and use related facts up to 100.	To know another structure of division is sharing (partitive) where the whole (the dividend) is shared equally between a given number of parts (the divisor) and the part size is found (quotient).	To be able to recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	To know fractions are also numbers in their own right in our linear number system.	To be able to show that multiplication of 2 numbers can be done in any order (commutative) and division of one number by another cannot.			To know there are 100cm in a metre (m).	To be able to solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.		
	To know addition can also be increasing an amount (augmentation).	To be able to add numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and 10s; 2 two-digit numbers; adding 3 one-digit numbers.			To know fractions can be written as one number on top of another. For example, a half is one over two ½.				To know we use cm to measure smaller objects and m to measure bigger objects.			
	To know when I add any two odd numbers, the sum is always even.				To know writing fractions this way is called fraction notation.				To know money is measured in pounds (£) and pence (p)			
	To know the language of addend + addend = sum.				To know a few fractions have special names: ½ is a half; ⅓ is a third; ¼ is a quarter; ⅕ is a fifth.				To know there are 100p in £1.			
	To know when I add any two even numbers, the sum is always even.								To know capacity is the measure of how much an object can hold.			
	To know when I add one odd and one even number, the total is odd.								To know volume is the measure of how much liquid there is.			
	To know a tens number has a zero in the ones column (e.g. 10, 20, 30, 40, 50).											
	To know when I add a tens number (10,20,30),											

	the ones digit will not change.			<p>To be able to show that multiplication of 2 numbers can be done in any order (commutative) and division of one number by another cannot.</p> <p>To solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p>	<p>To know the bottom part of the fraction is called the denominator.</p> <p>To know equivalent fractions are worth the same as each other even though they look different.</p>	<p>object, shape or quantity.</p> <p>To be able to recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity.</p> <p>To be able to recognise, find, name and write fractions one-third, one-quarter, two-quarters and three-quarters of a length, shape, set of objects or quantity.</p> <p>To be able to write simple fractions, for example half of 6 = 3 and recognise the equivalence of two-quarters and one-half.</p>	<p>To know capacity is measured in millilitres (ml) and litres (l).</p> <p>To know there are 1000ml in a litre.</p> <p>To know millilitres are used for measuring smaller amounts of liquid.</p> <p>To know litres are used for measuring larger amounts of liquid.</p> <p>To know temperature is measured in degrees.</p>					
	<p>Key vocabulary (tier 2)</p> <p>Add altogether digit estimate expanded column addition facts greater than hundreds less than make more number ones order partition place value plus sum tens tens number total zero</p>	<p>Key vocabulary (tier 3)</p>	<p>Key vocabulary (tier 2)</p> <p>altogether difference difference between equal groups expanded column leave less lots of minus take away multiplication repeated addition sequence subtract subtraction groups time tables</p>	<p>Key vocabulary (tier 3)</p> <p>commutative arrays factor inverse operation product</p>	<p>Key vocabulary (tier 2)</p> <p>cone corner apex cube cuboid curved cylinder denominator edge equal equivalent face flat fraction grouping half line of symmetry numerator part pattern quarter round share sharing side solid square based pyramid straight third three-dimensional triangular based pyramid triangular prism two-dimensional vertex vertical whole</p>	<p>Key vocabulary (tier 3)</p>	<p>Key vocabulary (tier 2)</p> <p>capacity change (money) degrees five-past five-to gram half-past heavier hour kilogram lighter litre mass millilitre minute month pence pound quarter-past quarter-to second temperature ten-past ten-to twenty-five-to twenty-past twenty-to volume</p>	<p>Key vocabulary (tier 3)</p> <p>Celsius</p>	<p>Key vocabulary (tier 2)</p> <p>block diagram clockwise/anti-clockwise compare data east forwards/backwards interpret key left/right north pattern pictogram quarter/half/three-quarter turn sequence south symbol table tally chart total west</p>	<p>Key vocabulary (tier 3)</p>	<p>Key vocabulary (tier 2)</p> <p>division equation grouping groups of half halving multiplication part sharing times times table whole</p>	<p>Key vocabulary (tier 3)</p>