

Year group	Key skills and knowledge	Key vocabulary	Links to faith & Values Islamic
			Mathematician Values Quran
Mathemati	cs – Counting and Counting in Multiples		
Year 1	 I can count to and across 100 forwards and backwards beginning with 0 or 1 or from any given number I can count numbers to 100 in numerals I can count in multiples of twos, five and ten 	Ten more/less, digit, , size, value, between, halfway between, above, below, tens, ones	
Year 2	 I can count on a number line, identifying missing numbers I can confidently count to 100 and beyond. I can count in 2, 3, 5 and 10 from any number on and back 	Skip counting, new ten, more less, fewer	Tasbeeh on your fingers - Tasbeeh is made of 99 beads 33+33+33. You can do it on your fingers because each finger as 3 parts. Link this to counting in 3s on your fingers.
Year 3	 I can count from 0 in multiples of 4, 8, 50 and 100; I can find 10 or 100 more or less than a given number 	Multiples, more, less	
Year 4	 I can count backwards through zero to include negative numbers I can count in multiples of 6, 7, 9, 25 and 1 000 I can find 1000 more or less than a given number 	Positive/negative, multiples, more/less,	
Year 5	 I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero I can count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 	Positive, negative, powers of 10, increase, decrease, minus, consecutive,	
Year 6	• I can use negative numbers in context, and calculate intervals across zero		
Mathematic	cs – Counting on and back	·	• •
Year 1	 Given a number, identify one more (numbers to 100) Given a number, identify one less (numbers to 100) 	Ten more/less, digit, , size, value, between, halfway between, above, below, tens, ones	

Year 2	• I can count forwards and backwards in 2's, 3's,5's and 10's from any given number	<i>Skip counting on back forwards backwards pattern digits</i>	 Tasbeeh on your fingers Tasbeeh is made of 99 beads 33+33+33. You can do it on your fingers because each finger as 3 parts. Link this to counting in 3s on your fingers. Salaah is prayed 5 times a day. This can be used in word problems about Salah (e.g. How many times would Muhammad have prayed in 7 days? = 7x5=35).
Year 3	 I can count from 0 in multiples of 4, 8, 50 and 100; I can find 10 or 100 more or less than a given number 	Multiples, more, less	
Year 4	 I can count backwards through zero to include negative numbers I can count in multiples of 6, 7, 9, 25 and 1 000 I can find 1000 more or less than a given number 	Positive/negative, multiples, more/less,	
Year 5	 I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero I can count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 	<i>Positive, negative, powers of 10, increase, decrease, minus</i>	
Year 6	• I can use negative numbers in context, and calculate intervals across zero	Positive, negative, powers of 10, increase, decrease, minus, overdraft, money, account	
Mathematic	s – Comparing Numbers		
Year 1	• Use the language of equal to, more than, less than (fewer), most least	Equal more than less than fewer most least	
Year 2	• I can compare and order numbers 0 to 100 using >, < and =	<i>Greater than Less than Equal to fewer</i>	
Year 3	• I can compare and order numbers up to 1 000	Compare, order, greater than, less than, equals to, ascending, descending, ones, tens, hundreds, one thousand, place value	

	Lean order and compare numbers bayand 1 202	Compare order
	I can order and compare numbers beyond 1 000	Compare, order,
	• I can compare numbers with the same number of decimal places up to two decimal places	ascending/descending,
Year 4	(copied from Fractions)	place value,
		hundredths, tenths,
		ones tens,
		hundreds,
		thousands,
		decimal point,
		equivalent,
		digit,
	• I can read, write, order and compare numbers to at least 1 000 000 and determine the	ten thousand,
	value of each digit	hundred thousand,
		million, digit,
		inequality, greater
Year 5		than or equals to,
		less than or equals
		to, ascending/
		descending order
	• I can read, write, order and compare numbers up to 10 000 000 and determine the value	next, consecutive
	of each digit	> greater than
		< less than ten
		thousand, hundred
Year 6		thousand, million,
		digit, inequality,
		equals to, ascending/
		descending order
Mathematics	s – Estimating, Identifying and Representing	
		Sensible estimate
Year 1	Identify and represent numbers using different representations	guess
	• I can represent numbers using concrete apparatus including: place value counters and base	Place value
Year 2	10 apparatus	Missing number
	• I can identify and estimate the missing number on a number line or scale	Number line Scale
	• I can partition two digit numbers in different ways	Value digit partition
	I understand the values of both digits in a two-digit number	recombine
	• I can identify, represent and estimate numbers using different representations	Identify, represent,
Year 3	· /, · · · · · · · · · · · · · · · · · ·	estimate, digits,
i cui s		place
		value, Base 10
		value, Dase 10

Year 4	• I can identify, represent and estimate numbers using different representations	Identify, represent, estimate, digits, place value, Base 10, part- whole, bar model, rounding, to the nearest _, visual representation, numerical representation, approximate
Year 5 and Year 6	• I can identify, represent and estimate numbers using different representations	guess how many ? estimate nearly roughly close to approximate, approximately about the same as just over, just under exact, exactly too many, too few enough, not enough round, nearest, round to the nearest ten, hundred, thousand, ten thousand round up, round down

Mathematics – Reading Numbers		
Year 1	 I can read numbers 1-100 in numerals. I can read numbers 1-20 and tens numbers in words. 	Tens ones
Year 2	 I can read numbers to 100 and beyond in numerals I can read numbers to 100 in words 	place value digit hundreds tens ones units place holder
Year 3	 I can read and write numbers up to 1 000 in numerals and in words I can tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (copied from Measurement) 	Numerals, digits, ones, tens, hundreds, one thousand, time, analogue, digital, Roman numerals, clock, 12-hour, 24- hour a.m., p.m., o'clock, quarter past, half past, quarter to, minutes past, minutes to, minute, hour, I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII
Year 4	• I can read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Numerals, (Roman numerals I-C), place value, zero, representation.
Year 5	 I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers) I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals. 	ten thousand, hundred thousand, million, digit, inequality D = 500 M = 1000

	I can read write order and compare numbers up to 10,000,000 and determine the value of	0000	
	• I can read, write, order and compare numbers up to 10 000 000 and determine the value of	ones	
	each digit (appears also in Understanding Place Value)	tens, hundreds	
		digit	
		one-, two- or three-	
		digit number	
		place, place value	
		stands for, represents	
		exchange	
		the same number as,	
		as many as	
		more, larger, bigger,	
		greater	
		fewer, smaller, less	
		fewest, smallest,	
		least	
		most, biggest, largest,	
		greatest	
		one more, ten more,	
		one hundred more,	
Year 6		one	
i cai o		thousand more	
		one less, ten less,	
		one hundred less,	
		one	
		thousand less	
		equal to	
		compare	
		order	
		size	
		first, second, third	
		twentieth	
		twenty-first, twenty-	
		second	
		last, last but one	
		before, after	
		next	
		between	
Mathemati	cs – Writing Numbers in Numerals and Words		
	Write numbers from 1 to 100 in numerals	Digit tens ones zero	Continuous provision-
Year 1	• Write numbers from 1 to 20 in words and the tens numbers		Maths area role play
			English
	• I can write numbers to at least 100 in numerals, understanding how to write 3 digit numbers	place value	Continuus
	from 100 to 200	digit hundreds	provision – maths
Year 2	 I can write numbers to 100 in words 	tens ones units place	area
		holder	u cu
		noidei	

	• I can read and write numbers up to 1 000 in numerals and in words	Numerals, digits,
	• I can tell and write the time from an analogue clock, including using Roman numerals from I to	ones, tens, hundreds,
	XII, and 12-hour and 24-hour clocks (copied from Measurement)	one thousand, time,
		analogue, digital,
		Roman numerals,
		clock, 12-hour, 24-
¥		hour a.m., p.m.,
Year 3		o'clock, quarter past,
		half past, quarter to,
		minutes past, minutes
		to, minute, hour, I,
		II, III, IV, V, VI,
		VII, VIII, IX, X, XI,
		XII
Year 4	• I can read Roman numerals to 100 (I to C) and know that over time, the numeral system	Numerals, (Roman
	changed to include the concept of zero and place value.	numerals I-C), place
		value, zero,
		representation.
	• I can read, write, order and compare numbers to at least 1 000 000 and determine the value	ten thousand,
	of each digit (appears also in Comparing Numbers)	hundred thousand,
Year 5	• I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	million, digit,
rear 5		inequality
		D = 500
		M = 1000
Noon C	• I can read, write, order and compare numbers up to 10 000 000 and determine the value of	See previous
Year 6	each digit (appears also in Understanding Place Value)	
Mathamatic	s – Addition and Subtraction	
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	Derive and recall addition facts for totals up to 10	Number bonds, number
Year 1	Represent and use number bonds and related subtraction facts within 20	line, add, more, plus,
	Addition doubles for all numbers to at least 10	make, sum, total,
	Add one-digit and two-digit numbers to 20, including zero	altogether, double, near double, equals, is the
	 Subtract one-digit and two-digit-numbers to 20, including zero 	same as = difference
	Add a multiple of 10 to a one-digit number	between, subtract, take
	Add near doubles	away, minus How many
	• Read, write and interpret mathematical statements involving addition (+), subtraction (-) and	more to make?, How
	equals (=) signs	many more is than
		?, How much more is
		?, How many -fewer is
		than ?, How
		much less is ?

	Recall and use addition and subtraction facts within 20	Concrete Pictorial
	 Derive and use number facts to 100 	Mental
	 Use concrete objects to 	Representation
	Add and subtract two digit number and ones	Ones Tens
	Add and subtract two digit number and tens	Commutative
	 Add and subtract two digit number and tens Add and subtract two two digit numbers 	Inverse operation
	 Use pictorial representations to: 	addition plus
	Add and subtract two digit number and ones	subtraction minus less
¥	Add and subtract two digit number and tens	fewer more total
Year 2	Add and subtract two two digit numbers	altogether jottings
	Use mental strategies to	calculation
	Add and subtract two digit number and ones	
	Add and subtract two digit number and tens	
	• I can add three one-digit numbers	
	• I know that addition can be done in any order (commutative) and subtraction cannot	
	I know that addition and subtraction are inverses	
	• I can use the inverse operation to find missing numbers.	
	• I can use written methods involving partitioning for addition.	
	• I can use formal written methods for addition and subtractions (column method)	
	I can add and subtract numbers mentally, including:	Add, plus, more, less,
	• a three-digit number and ones	Subtract, take away,
	• a three-digit number and tens	fewer, find the
	• a three-digit number and hundreds	difference,
	•	total, answer, equals,
	WRITTEN METHODS	part-whole, partition,
× 0	• I can add and subtract numbers with up to three digits, using formal written methods of	count on, count back,
Year 3	columnar addition and subtraction	number line,
		commutative, ones,
	• INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS	tens, hundreds,
	• I can estimate the answer to a calculation and use inverse operations to check answers	column method, place
		value, exchange,
		inverse operation,
		estimate, check
	WRITTEN METHODS	Addition, subtraction,
	 I can add and subtract numbers with up to 4 digits using the formal written methods of 	method, operation,
Year 4	columnar addition and subtraction where appropriate	more, less, column,
	 INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS 	
	 Inverse operations, estimating and checking answers I can estimate and use inverse operations to check answers to a calculation 	place value,
	•	exchange, inverse,
		efficient
		strategy/method,
		estimate, rounding,
		check, commutative,
		sum, difference

Year 5	 I can add and subtract numbers mentally with increasingly large numbers WRITTEN METHODS I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy I can perform mental calculations, including with mixed operations and large numbers I can use my knowledge of the order of operations to carry out calculations involving the four operations INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS 	round, nearest, round to the nearest ten, hundred, thousand, ten thousand context, accuracy, accurate, addition add, more, and make, sum, total altogether double
Year 6	 I can use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy. 	near double half, halve one more, two more ten more one hundred more how many more to make? how many more is than? how much more is? subtract take away how many are left/left over? how many have gone? one less, two less, ten less one hundred less how many fewer is than? how much less is?
Mathematics	s – Multiplication and Division	
Year 1	 Solve one-step problems involving multiplication and division using concrete objects, pictorial representations and arrays with the support of the teacher 	Share group arrange array lots of how many how much

Year 2	 Recall and use multiplication and division facts for the 2 times tables Recall and use multiplication and division facts for the 5 times tables Recall and use multiplication and division facts for the 10 times tables I can recognise if a number is odd or even and explain how I know. I recognise and can use the symbols x, ÷ and = I know that multiplication is commutative and division is not I can use an array to represent and support me to solve multiplication and division problems I know that multiplication is the same as repeated addition 	Multiplication Divide Times tables Multiply Multiple Commutative Repeated addition Lots of
Year 3	 count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value) recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects 	Multiple, multiplication, multiply, times, divide, division, lots of, groups of, equal groups, times table, commutative, column method, inverse, scaling
Year 4	 count in multiples of 6, 7, 9, 25 and 1000 recall multiplication and division facts for multiplication tables up to 12 × 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using formal written layout estimate and use inverse operations to check answers to a calculation solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects 	Multiple, multiplication, times table, division facts, place value, column, expanded/short, multiplication/division, inverse, check, estimate, remainder, factors, factor pairs, t-model/chart, scaling, correspondence, product, quotient

Year 5	 count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 multiply and divide numbers mentally drawing upon known facts multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 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 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 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates 	Bust stop method, prime, composite, common factors, highest common factor, lowest common factor, prime factor, multiple, common multiples, decimal point, tenth, hundredth, thousandth, remainder, squared, cubed, equals
Year 6	 perform mental calculations, including with mixed operations and large numbers associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) (copied from Fractions) multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where appropriate for the context divide numbers up to 4 digits by a two-digit whole numbers up to 4 digits by a two-digit whole number using the formal written method of short division where appropriate for the context divide numbers up to 4 digits by a two-digit whole number s up to 4 digits by a two-digit whole numbers up to 4 digits by a two-digit whole number s up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context use written division methods in cases where the answer has up to two decimal places identify common factors, common multiples and prime numbers 	multiplication multiply multipled by multiple, factor groups of times product once, twice, three times ten times repeated addition division

	 use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions) calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm3) and cubic metres (m3), and extending to other units such as mm3 and km3 (copied from Measures) use their knowledge of the order of operations to carry out calculations involving the four operations use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy solve problems involving addition, subtraction, multiplication and division solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion) 	dividing, divide, divided by, divided into left, left over, remainder grouping sharing, share, share equally equal groups of doubling halving array row, column number patterns multiplication table multiplication fact, division fact inverse square, squared cube, cubed
Mathemati	cs – Problem Solving with Number and Place Value	
Year 1	• Solve one-step problems that involve addition and subtraction (using Year 1 number content)	Number facts, number line, number track, number square how much how many what if
Year 2	 I can use place value to solve problems I can use addition and subtraction to solve problems. These problems could involve quantities, measures and numbers. I can use my knowledge of number facts and the inverse to solve missing number problems I can use my multiplication and division knowledge to solve problems in context. 	Partition recombine digit inverse operation calculation
Year 3	 recognise the place value of each digit in a three-digit number (hundreds, tens, ones) solve number problems and practical problems involving these ideas. 	<i>Place value, ones, tens, hundreds, digit, partition, problem, solve, calculate</i>

Year 4	 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) round any number to the nearest 10, 100 or 1 000 solve number and practical problems that involve all of the above and with increasingly large positive numbers 	Place value up to thousands. Round to the nearest, digit, round up/down, multiple
Year 5	 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions) round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above 	round, nearest, round to the nearest ten, hundred, thousand, ten thousand round up, round down
Year 6	 read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1 000 where the answers are up to three decimal places (copied from Fractions) round any whole number to a required degree of accuracy solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions) solve number and practical problems that involve all of the above 	
Year 1	 Fractions including decimals and percentages I can recognise and name a half as one of two equal parts of an object or small quantity. I can recognise and name a quarter as one of four equal parts of an object, shape or quantity. 	half quarter equal the same share out Whole, equal parts, four equal parts, one half, two halves, a quarter, two quarters
Year 2	 I can recognise and find ½, ¼, 2/4 and 1/3 of a shape I can recognise and find ½, ¼, 2/4 and 1/3 of a number or set of objects I can write simple fractions ½ of 6=3 I know that 2/4 is equivalent to ½ I know ½ is called half I know 1/3 is called third I know ¼ is called quarter, 2/4 is two quarters, ¾ is three quarters I know that these fractions ½, ¼, 2/3 are non-unit fractions I know that 2/2, 3/3 and 4/4 are a whole 	Fraction Half whole Quarter Third Equivalent Unit fraction Non-unit fraction Three quarters, one third, a third, equivalence, equivalent two quarters

Year 3	 count up and down in tenths recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10. recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators compare and order unit fractions, and fractions with the same denominators recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7) solve problems that involve all of the above 	Fraction, half, whole, Quarter, third, Equivalent, unit fraction, non-unit fraction, three quarters, one third, a third, equivalence, equivalent, two quarters, numerator, denominator, tenths, equal parts, compare, order, greater than, less than, equal to
Year 4	 count up and down in hundredths recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten compare numbers with the same number of decimal places up to two decimal places round decimals with one decimal place to the nearest whole number recognise and show, using diagrams, families of common equivalent fractions recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/4; 1/2; ³/₄ add and subtract fractions with the same denominator find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths 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 solve simple measure and money problems involving fractions and decimals to two decimal places 	Hundredths, tenths, count up/down, divide, greater/less than, digit, equivalent, decimal, decimal place, decimal point, round up/down, round to the nearest whole number/integer, diagram, decimal equivalent, equivalent fraction, halves, quarters, numerator, denominator, column, money, pounds, pence, proper/improper fractions, unit/non unit fractions, mixed fractions.

Year 5	 recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence) compare and order fractions whose denominators are all multiples of the same number read, write, order and compare numbers with up to three decimal places round decimals with two decimal places to the nearest whole number and to one decimal place identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths read and write decimal numbers as fractions (e.g. 0.71 = 71/100) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction add and subtract fractions with the same denominator and multiples of the same number 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 numbers, supported by materials and diagrams solve problems involving numbers up to three decimal places solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25. 	proper/improper fraction, equivalent, reduced to, simplify, convert, cancel, thousandths, in every, for every percentage, per cent, %, decimal, decimal fraction, decimal point, decimal place, decimal equivalent	
	 4/5 and those with a denominator of a multiple of 10 or 25. compare and order fractions, including fractions >1 identify the value of each digit in numbers given to three decimal places solve problems which require answers to be rounded to specified degrees of accuracy 	<i>fraction, proper/improper fraction equivalent</i>	Multiplying by 10 6:160 "Whoever brings a good (Deed) he shall have ten times its like, and whoever brings vice, he shall
Year 6	 use common factors to simplify fractions; use common multiples to express fractions in the same denomination associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) 	fraction mixed number numerator, denominator	 not be recompensed but with its like, and they shall not be dealt with unjustly." SHINE links: Inspire, Excellence (Values : excellence, integrity)

 real and use equivalences between simple fractions, decimals and mixed numbers, using the diverse contexts. add and subtract fractions with liftbreant denominators and mixed numbers, using the answer in its simples fraction (e.g. 1/4 × 1/2 + 1/8). multiply and edite numbers with up to two decimal places by whole numbers in multiply and divide numbers with up to two decimal places by whole numbers in any the answer in the simplest fraction and index decimal places. multiply and divide numbers by 10, 100 and 3000 where the answers are up to three decimal places. and 1000 where the answers are up to three decimal places are three decimal places. and 1000 where the answers are up to three decimal places. and 1000 where the answers are up to three decimal places. the sacces are fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction. (e.g. 3/8). use written division methods in cases where the answer has up to two decimal places. tength and Hoight Compare, describe and solve practical problems, moving from non-standard to standard units of messare, are wright. Mathematics - Measurement 			-	
 add and subtract fractions with different denominators and mixed numbers, using the course of equivalent herations. multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/3). multiply one-digit numbers with up to two decimal places by whole numbers due to a whole numbers of 0, 0, 0 and 1000 where the answers are up to three decimal places. darker, the value of each digit to three decimal places and multiply and divide numbers by 10, 0 and 1000 where the answers are up to three decimal places. add of 1000 where the answers are up to three decimal places are up to three decimal places. add 1000 where the answers are up to three decimal places are up to three decimal places. (e.g. 3/8). use written division methods in cases where the answer has up to two decimal places. Mathematics - Measurement Time _ season, divide numbers of 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,		 recall and use equivalences between simple fractions, decimals and percentages, including in 	equivalent, reduced	
 concept of equivalent fractions multiply one-digit numbers with up to two decimal places by whole numbers divide grager fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 – 1/8). multiply one-digit numbers with up to two decimal places by whole numbers divide grager fractions by whole numbers (e.g. 1/3 + 2 = 1/8) multiply one-digit numbers with up to two decimal places by whole numbers multiply one-digit numbers with up to two decimal places by whole numbers multiply one-digit numbers with up to two decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places a and 1000 where the answers are up to three decimal places a associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.325) for a simple fraction (e.g. 3/8) use written division methods in cases where the answer has up to two decimal places aux written division fraction set the answer has up to two decimal places two decimal places decimal place, decimal place, compare, describe and solve practical problems, moving from non-standard to standard units of length and height . Recognise and usely practical problems, moving from non-standard to standard units of masser, user, masser, user, Recognise and usely practical problems, moving from non-standard to standard units of masser, user, masser, user, Recognise and low plate of different denominations of cains and notes 10, most,		different contexts.	to, cancel	
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 Compare, describe and solve practical problems, moving from non-standard to standard units of length and height Measure and begin to record mass / weight Measure and begin to record mass / weight Compare, describe and solve practical problems, moving from non-standard to standard units of mass and weight Compare, describe and solve practical problems, moving from non-standard to standard units of mass and weight Recognise and use language relating to dates days of the week, weeks, months and years Compare, describe and solve practical problems, using standard units of time Recognise and know the value of different denominations of coins and notes 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50 Reasure and begin to record capacity and volume Compare, describe and solve practical problems moving from non-standard to standard units of the quran and there are 12 months in a year. 		Length and Height		 Time – Surah Asr
Weight image: image		Measure and begin to record lengths and heights	month, year,	 <u>https://www.youtu</u>
Weight holiday, morning, afternoon, evening, night, mass and weight holiday, morning, afternoon, evening, night, bedtime, mass and weight o meaning /explanation: https://www.voutu be.com/watch?v=p Time Recognise and use language relating to dates days of the week, weeks, months and years compare, describe and solve practical problems, using standard units of time meaning / evening, night, bedtime, playtime, today, The word 'Sahr' • Recognise and use language relating to dates days of the week, weeks, months and years rIGA3HaZs The word 'Sahr' • Recognise and know the value of different denominations of coins and notes now, soon, The Quran and there are 12 months in a year. • Measure and begin to record capacity and volume Takes less time, hour, o'clock, Takes less time, hour, o'clock, Hours, //www.voutube.c		• Compare, describe and solve practical problems, moving from non-standard to standard units of		<pre>be.com/watch?v=s</pre>
Weight • Measure and begin to record mass / weight • o meaning • Measure and begin to record mass / weight • o meaning • Compare, describe and solve practical problems, moving from non-standard to standard units of mass and weight • meaning Time • Recognise and use language relating to dates days of the week, weeks, months and years • meaning • Compare, describe and solve practical problems, using standard units of time • The word 'Sahr' • Recognise and know the value of different denominations of coins and notes • now, soon, • 1p, 2p, 5p, 10p, 20p, 50p, f1, f2, f5, f10, f20, f50 Takes longer, takes less time, hour, o'clock, • Measure and begin to record capacity and volume • Measure and begin to record capacity and volume • Compare, describe and solve practical problems moving from non-standard units of Takes longer, takes less time, hour, o'clock,		length and height		<u>eBasihg-ys</u>
 Measure and begin to record mass / weight Compare, describe and solve practical problems, moving from non-standard to standard units of mass and weight Time Recognise and use language relating to dates days of the week, weeks, months and years Compare, describe and solve practical problems, using standard units of time Recognise and know the value of different denominations of coins and notes Recognise and know the value of different denominations of coins and notes Takes longer, takes less time, hour, o'clock, hour, o'clock, https://www.youtube.com/ 				
 Compare, describe and solve practical problems, moving from non-standard to standard units of mass and weight Time Recognise and use language relating to dates days of the week, weeks, months and years Compare, describe and solve practical problems, using standard units of time Recognise and know the value of different denominations of coins and notes Recognise and know the value of different denominations of coins and notes Ip, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50 Measure and begin to record capacity and volume Measure and begin to record capacity and volume Compare, describe and solve practical problems moving from non-standard to standard units of time 		-	afternoon,	-
mass and weight beatime, dinnertime, dinnertime, playtime, today, yesterday, be.com/watch?v=p FrlGA3HqZs • Recognise and use language relating to dates days of the week, weeks, months and years playtime, today, yesterday, • • Compare, describe and solve practical problems, using standard units of time ime meaning 'month' is mentioned 12 times in now, soon, meaning 'month' is mentioned 12 times in the Quran and there are 12 months in a year. • Recognise and know the value of different denominations of coins and notes Takes longer, takes less time, hour, o'clock, Takes longer, takes less time, hour, o'clock, the Quran and there are 12 months in a year.			evening, night,	
TimeInhertime, playtime, today, yesterday,FriGA3HqZs• Recognise and use language relating to dates days of the week, weeks, months and years • Compare, describe and solve practical problems, using standard units of timeplaytime, today, yesterday, tomorrow Before, after, next, last, now, soon,The word 'Sahr' meaning 'month' is mentioned 12 times in the Quran and there are 12 months in a year.• Recognise and know the value of different denominations of coins and notes • 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50now, soon,the Quran and there are 12 months in a year.• Measure and begin to record capacity and volume • Compare, describe and solve practical problems moving from non-standard to standard units ofTakes longer, takes less time, hour, o'clock,Islamic months song: https://www.youtube.c			bedtime,	
 Recognise and use language relating to dates days of the week, weeks, months and years Compare, describe and solve practical problems, using standard units of time Recognise and know the value of different denominations of coins and notes 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50 Capacity and Volume Measure and begin to record capacity and volume Compare, describe and solve practical problems moving from non-standard to standard units of 		-	dinnertime,	
 Compare, describe and solve practical problems, using standard units of time Recognise and know the value of different denominations of coins and notes <i>1p</i>, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50 <i>Capacity and Volume</i> <i>Measure and begin to record capacity and volume</i> <i>Compare, describe and solve practical problems moving from non-standard to standard units of</i> 			playtime, today,	
Money after, next, last, now, soon, mentioned 12 times in the Quran and there are 12 months in a year. • Recognise and know the value of different denominations of coins and notes now, soon, the Quran and there are 12 months in a year. • Measure and begin to record capacity and volume Takes longer, takes less time, hour, o'clock, Islamic months song: https://www.youtube.c			yesterday,	
 Recognise and know the value of different denominations of coins and notes 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50 Capacity and Volume Measure and begin to record capacity and volume Compare, describe and solve practical problems moving from non-standard to standard units of 		 Compare, describe and solve practical problems, using standard units of time 	tomorrow Before,	meaning 'month' is
 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50 Capacity and Volume Measure and begin to record capacity and volume Compare, describe and solve practical problems moving from non-standard to standard units of 		Money	after, next, last,	mentioned 12 times in
Capacity and Volume Takes longer, takes less time, hour, o'clock, year. • Measure and begin to record capacity and volume Islamic months song: hour, o'clock, Islamic months song: hour, o'clock,		• Recognise and know the value of different denominations of coins and notes	now, soon,	the Quran and there
Capacity and Volume Takes longer, takes less time, hour, o'clock, year. • Measure and begin to record capacity and volume Islamic months song: hour, o'clock, Islamic months song: hour, o'clock,		• 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50		are 12 months in a
Measure and begin to record capacity and volume Compare, describe and solve practical problems moving from non-standard to standard units of hour, o'clock,			Takes longer,	
• Compare, describe and solve practical problems moving from non-standard to standard units of			takes less time,	
half past, clock,			hour, o'clock,	
			half past, clock,	https://www.youtube.c

	capacity and volume	watch, hands,	om/watch?v=X57vJ
		how long ago?,	YurM
Vee d		How long will it	<u></u>
Year 1		be to ?,	
		estimate, close	Money
		to, about the	 2:274 "Those who
			spend their wealth
		same as, Length,	(in the way of Alla
		width, height,	night and day,
		depth, long,	secretly and open
		longer, longest,	
		short, shorter	they have their
		shortest, tall,	reward with their
		taller, tallest,	Lord, and there is
		high, higher,	fear for them, nor
		highest, Low,	shall they grieve.
	1	wide, narrow,	• 17:26 "And give t
	1	deep, shallow,	the near of kin his
	1	thick, thin, far,	
	1	near, close,	due, and (to) the
	1	metre, ruler,	needy, and the
	1	metre stick How	wayfarer; and do
		much?, How	squander
		many?, money,	wastefully."
		many?, money,	• 25:67 "And those
			who when they
			spend, are neithe
			extravagant nor
			niggardly, and are
			stationed between
			the two (extreme
			SHINE links: Share
			Helping each othe
			(Service, gratitud
			for what we have
			compassion for the
			with less, integrit
			doing right with o
			money)
		coin, penny,	
		pence, pound,	
	1	price, cost, buy,	
	1		
	1	sell, costs more,	
	1	costs less,	
	1	cheaper, costs	
	1	the same as,	
		total	
	Length and Height	Unit	Time
	• I know that meter (m), centimetre (cm) and millimetre(mm) are units for measuring length and	Centimetre	• Time – Surah Asr
	height	Meter	o https://www.yo
			be.com/watch?
	• I can measure the length or height in any direction using a ruler, tape measure or meter stick.	Millimetre	
	• I can read the scale on the ruler, tape measure or meter stick.	Ruler	<u>eBasihg-ys</u>
	• I can compare and order length and height using <, > and =	Tape measure	 meaning

	• I know that 10mm= 1cm	Compare	/explanation:
	 I know that 100cm= 1m 	Order	https://www.youtu
	Weight/mass	Greater than	be.com/watch?v=p
	 I know that gram (g), kilogram(kg) are units for measuring weight and mass 	Less than	FrIGA3HqZs
	 I can measure the weight or mass using scales. 	Equal to	 The word 'Sahr'
	 I can read the scale on the scales. 	Equivalent	meaning 'month' is
	 I can read the scale on the scales. I can compare and order weight and mass using <, > and = 	Grams	mentioned 12 times in
	 1000g=1kg 	Kilograms	the Quran and there
	Time	Scales	are 12 months in a
	 I can compare events saying which one is longer or shorter 	Sequence	year.
	 I can sequence events that happen over a period of time identifying which came first, second, 	Period	 Islamic months song:
	last	Quarter past	https://www.youtube.c
	 I can read the time in 15 minute intervals, o'clock, half past, quarter past and quarter to. 	Quarter to	om/watch?v=X57vJGC
	 I can vite the time in words to match a clock that shows o'clock, half past, quarter past and 	Interval	YurM
Year 2	quarter to	Minute hand	
	• I can draw the hands on a clock to show o'clock, half past, quarter past and quarter to.	Hour hand	Money
	 I can tell and write the time to 5 minutes. 	Clock face	• 2:274 "Those who
	 I know that there are 60 minutes in 1 hour 	Minutes	spend their wealth
	 I know that there are 24 hours in 1 day 	Hours	(in the way of Allah)
	Money	pounds	night and day,
	 I know that £ is used for pounds 	pence	secretly and openly,
	 I know that p is used for pence 	combination	they have their
	 I can use a range of coins to make an amount 	change	reward with their
	 I can find different combinations of coins to make the same amount 	millilitre	Lord, and there is no
	 I can add and subtract money in the same unit to solve problems 	litre	fear for them, nor
	 I can give change in one unit 	Celsius	shall they grieve."
	Capacity and Volume	Thermometer	• 17:26 "And give to
	 I know that millilitres (ml), litres (l) are units for measuring capacity and volume 	Degrees	the near of kin his
	 I can measure the capacity or volume using measuring jugs and cylinders. 		due, and (to) the
	 I can read the scale on the measuring jug and cylinder. 		needy, and the
	 I can read the scale on the measuring jug and cymach. I can compare and order capacity and volume using <, > and = 		wayfarer; and do not
	 I know that 1000ml=1l 		squander
	Temperature		wastefully."
	• I know that degrees Celsius (‰C) is the unit for measuring temperature		• 25:67 "And those
	 I can measure the temperature using a thermometer. 		who when they
	• I can read the scale on the thermometer.		spend, are neither
	 I can compare and order temperature using <, > and = 		extravagant nor
			niggardly, and are
			stationed between
			the two (extremes)."
			(Service, gratitude
			for what we have,
			compassion for those
			with less, integrity –
			doing right with our
			money)

compare du	urations of events, for example to calculate the time taken by particular events	or Compare, duration,	Time
tasks	arations of events, for example to calculate the time taken by particular events	estimate, second,	• Time – Surah Asr
	and read time with increasing accuracy to the nearest minute; record and con		 https://www.youtu
	ms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., m		be.com/watch?v=s
	noon and midnight (appears also in Telling the Time)		eBasihg-ys
		nl) Roman numerals,	 meaning
	compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/n		/explanation:
	he perimeter of simple 2-D shapes	clock, 12-hour, 24-	https://www.youtu
	ubtract amounts of money to give change, using both \pounds and p in practical contained to the time form on analysis clearly including using Remon purposed form L		be.com/watch?v=p
	rite the time from an analogue clock, including using Roman numerals from I		FrIGA3HqZs
	ur and 24-hour clocks	half past, quarter to,	
estimate al time with		minutes past, minutes	Money
	increasing accuracy to the nearest minute; record and compare time in terms		 2:274 "Those who spend their wealth
	ninutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon		•
and midnig		VII, VIII, IX, X, XI,	(in the way of Allah)
	number of seconds in a minute and the number of days in each month, year a		night and day,
year		centimetre,	secretly and openly,
		millimetre, length,	they have their
		gram, kilogram, mass,	reward with their
		litre, millilitre,	Lord, and there is no
		volume, capacity,	fear for them, nor
		perimeter, money,	shall they grieve."
		pound, pence,	• 17:26 "And give to
		change, coin, note,	the near of kin his
		month, year, leap	due, and (to) the
		year	needy, and the
			wayfarer; and do not
			squander
			wastefully."
			• 25:67 "And those
			who when they
			spend, are neither
			extravagant nor
			niggardly, and are
			stationed between
			the two (extremes)."
			• (Service, gratitude
			for what we have,
			compassion for those
			with less, integrity -
			doing right with our
			money)

	• estimate, compare and calculate different measures, including money in pounds and pence	Estimate, compare,	Time
	• measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres	round, greater/less	• Time – Surah Asr
	and metres	than, money, pounds,	 <u>https://www.youtu</u>
	find the area of rectilinear shapes by counting squares	pence, litres,	be.com/watch?v=s
	 read, write and convert time between analogue and digital 12 and 24-hour clocks 	millilitres, grams,	<u>eBasihg-ys</u>
	(appears also in Converting)	kilograms, perimeter,	 meaning
	• solve problems involving converting from hours to minutes; minutes to seconds; years to months;	measure, centimetres,	/explanation:
Year 4	weeks to days	metres (squared),	https://www.youtu
Tear 4	• convert between different units of measure (e.g. kilometre to metre; hour to minute)	rectilinear, area,	<u>be.com/watch?v=p</u>
	 read, write and convert time between analogue and digital 12 and 24-hour clocks 	scale/not to scale,	<u>FrIGA3HqZs</u>
		time, minutes, hours,	Money
		seconds, days, weeks,	• 2:274 "Those who
		months, years,	spend their wealth
		analogue, digital, 12	(in the way of Allah)
		hour, 24 hour, units	night and day,
		of measure,	secretly and openly,
			they have their
			reward with their
			Lord, and there is no
			fear for them, nor
			shall they grieve."
			• 17:26 "And give to
			the near of kin his
			due, and (to) the
			needy, and the
			wayfarer; and do not
			squander
			wastefully."
			• 25:67 "And those
			who when they
			spend, are neither
			extravagant nor
			niggardly, and are
			stationed between
			the two (extremes)."
			• (Service, gratitude
			for what we have,
			compassion for those
			with less, integrity -
			doing right with our
			money)
	• calculate and compare the area of squares and rectangles including using standard units, square	metric unit, imperial	Time
Year 5	centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes	unit, approximately,	• Time – Surah Asr
	· · · · · · · · · · · · · · · · · · ·	square centimetre	 <u>https://www.youtu</u>
			be.com/watch?v=s
			<u>eBasihg-ys</u>
			o meaning
			/explanation:
			https://www.youtu
			be.com/watch?v=p

	FrIGA3HqZs
	 Muslim inspirational
	personality – Al Jazari
	– inventor of the clock
	∘ <u>https://science4fu</u>
	n.info/al-jazari/
	o https://www.youtu
	be.com/watch?v=1
	8Zt7b9EYzw
	Money
	• 2:274 "Those who
	spend their wealth
	(in the way of Allah)
	night and day,
	secretly and openly,
	they have their
	reward with their
	Lord, and there is no
	fear for them, nor
	shall they grieve."
	• 17:26 "And give to
	the near of kin his
	due, and (to) the
	needy, and the
	wayfarer; and do not
	squander
	wastefully."
	• 25:67 "And those
	who when they
	spend, are neither
	extravagant nor
	niggardly, and are
	stationed between
	the two (extremes)."
	(Service, gratitude for
	what we have,
	compassion for those with less, integrity –
	doing right with our
	money)

• estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using	(cm2), square metre	Time
water)	(m2), square	• Time – Surah Asr
• use all four operations to solve problems involving measure (e.g. length, mass, volume, money)	millimetre (mm2),	 <u>https://www.youtu</u>
using decimal notation including scaling.	millimetre,	be.com/watch?v=s
• measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	centimetre, metre,	<u>eBasihg-ys</u>
• calculate and compare the area of squares and rectangles including using standard units, square	kilometre, mile	o meaning
centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes	length, height, width,	/explanation:
• recognise and use square numbers and cube numbers, and the notation for squared (2) and	depth, breadth, pint,	https://www.youtu
cubed (3)	gallon	be.com/watch?v=p
solve problems involving converting between units of time	5	FrIGA3HqZs
• convert between different units of metric measure (e.g. kilometre and metre; centimetre and		 Muslim inspirational
metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		personality – Al Jazari
 solve problems involving converting between units of time 		- inventor of the clock
• understand and use equivalences between metric units and common imperial units such as		o https://science4fu
inches, pounds and pints		n.info/al-jazari/
		o https://www.youtu
		be.com/watch?v=1
		8Zt7b9EYzw
		o SHINE links:
		Share, Inspire,
		Never Give Up,
		Excellence
		(Values: Serving
		others by
		inventing useful
		item, Excellence)
		Money
		 2:274 "Those who
		spend their wealth
		(in the way of Allah)
		night and day,
		secretly and openly,
		they have their
		reward with their
		Lord, and there is no
		fear for them, nor
		shall they grieve."
		 17:26 "And give to
		the near of kin his
		due, and (to) the
		needy, and the
		wayfarer; and do not
		squander
		wastefully."
		• 25:67 "And those
		who when they
		spend, are neither
		extravagant nor
		niggardly, and are
	I	

			 stationed between the two (extremes)." (Service, gratitude for what we have, compassion for those with less, integrity – doing right with our money)
Year 6	 calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm3) and cubic metres (m3), and extending to other units such as mm3 and km3. solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate recognise that shapes with the same areas can have different perimeters and vice versa calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [e.g. mm3 and km3]. recognise when it is possible to use formulae for area and volume of shapes use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation up to three decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation to up to three decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation to up to three decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation to up to three decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation to up to three decimal places convert between miles and kilometres 	Length centimetre, metre, millimetre, kilometre, mile, yard, foot, feet, inch, inches length, height, width, depth, breadth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher and so on longest, shortest, tallest, highest and so on far, further, furthest, near, close distance apart between to from edge, perimeter, circumference area, covers square centimetre (cm2), square metre (m2), square millimetre (mm2) ruler	

		metre stick, tape
		measure
		Weight
		mass: big, bigger,
		small, smaller
		weight: heavy/light,
		heavier/lighter,
		heaviest/
		lightest
		tonne, kilogram, half
		kilogram, gram,
		pound,
		ounce
		weigh, weighs,
		balances
		heavy, light
		heavier than, lighter
		than
		heaviest, lightest
		scales
		Capacity and volume
		litre, half litre,
		millilitre, centilitre
		cubic
		centimetres(cm3),
		cubic metres (m3),
		cubic millimetres
		(mm3), cubic
		kilometres
		kilometres (km3)
		<i>kilometres (km3) capacity</i>
		kilometres (km3)
lathematic	cs – Properties of Shapes, Geometry	kilometres (km3) capacity volume
	• I can recognise and name common 2-D shapes.	kilometres (km3) capacity volume Corner (point, pointed),
		kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make,
	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw
	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. I can recognise and name 2D shapes- i.e. circle, semi-circle, triangle, square, rectangle, kite, 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw Vertices
	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. I can recognise and name 2D shapes- i.e. circle, semi-circle, triangle, square, rectangle, kite, pentagon, hexagon, heptagon, octagon 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw Vertices Line of symmetry
	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. I can recognise and name 2D shapes- i.e. circle, semi-circle, triangle, square, rectangle, kite, pentagon, hexagon, heptagon, octagon I can recognise and name 3D shapes- sphere, cylinder, cone, cube, cuboid. triangular prism, 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw Vertices Line of symmetry Right angle
	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. I can recognise and name 2D shapes- i.e. circle, semi-circle, triangle, square, rectangle, kite, pentagon, hexagon, heptagon, octagon I can recognise and name 3D shapes- sphere, cylinder, cone, cube, cuboid. triangular prism, square based pyramid, triangular based pyramid 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw Vertices Line of symmetry
Year 1	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. I can recognise and name 2D shapes- i.e. circle, semi-circle, triangle, square, rectangle, kite, pentagon, hexagon, heptagon, octagon I can recognise and name 3D shapes- sphere, cylinder, cone, cube, cuboid. triangular prism, square based pyramid, triangular based pyramid I can identify shapes with a right angle 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw Vertices Line of symmetry Right angle
Year 1	 I can recognise and name common 2-D shapes. I can recognise and name common 3-D shapes. I can recognise and name 2D shapes- i.e. circle, semi-circle, triangle, square, rectangle, kite, pentagon, hexagon, heptagon, octagon I can recognise and name 3D shapes- sphere, cylinder, cone, cube, cuboid. triangular prism, square based pyramid, triangular based pyramid I can identify shapes with a right angle I can identify the properties of 2D shapes (number of sides and corners) 	kilometres (km3) capacity volume Corner (point, pointed), face, side, edge, make, build, draw Vertices Line of symmetry Right angle
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Year 3	 draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines 	2-D, 3-D, face, edge, vertices, angles, right angle, turn, quarter turn, half turn, three quarter turn, completer turn, clockwise, anti- clockwise, greater than, less than, horizontal, vertical, perpendicular, parallel
Year 4	 identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify acute and obtuse angles and compare and order angles up to two right angles by size 	2D/3D, line of symmetry, symmetrical/non- symmetrical, grid, quadrilaterals, triangles, properties, size, parallel, horizontal, vertical, diagonal, acute, obtuse, degrees, greater than/less than, regular, irregular,
Year 5	 identify 3-D shapes, including cubes and other cuboids, from 2-D representations draw given angles, and measure them in degrees (o) use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles identify: angles at a point and one whole turn (total 360o) angles at a point on a straight line and ½ a turn (total 180o) other multiples of 900 	radius, diameter, congruent, axis of symmetry, reflective symmetry, x-axis, y- axis, quadrant, octahedron, regular, irregular,

Year 6	 recognise, describe and build simple 3-D shapes, including making nets illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius draw 2-D shapes using given dimensions and angles compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles 	curved, straight round hollow, solid sort make, build, construct, draw, sketch perimeter centre, radius, diameter circumference, concentric, arc net, open, closed surface angle, right-angled congruent intersecting, intersection plane base, square-based size bigger, larger, smaller symmetry, symmetrical, symmetrical pattern line symmetry reflect, reflection axis of symmetry pattern, repeating pattern	
		pattern match	
		regular, irregular	
Mathemati	cs – Position and Direction		
Year 1	 I can describe position and direction e.g. left and right; top, middle and bottom; on top of, below; in front of, behind; above, below; between, around, near, close and far, up and down, forwards and backwards, inside and outside. I can describe and make movements e.g. half, quarter, three-quarter and whole turns. I can link turning clockwise and anti-clockwise with movement on a clock face. 	Before, after, beside, next to, opposite, apart, between, middle, left, right, up, down, forwards, backwards, sideways, across, close, far, near, along, through, to, from, towards, away from, whole turn, half turn,	
Year 2	 I can create and continue patterns using mathematical objects I can use language to describe the position of an object I can explain how a shape has been rotated I can use terms like right angle, clock wise and anti-clockwise to describe a turn. 	<i>Rotation left right quarter turn half turn three quarter turn clock wise ant clockwise</i>	Children to create an Islamic art piece using reflection and rotation and describing the position of shapes.

Mathematic	cs –	Statistics		
Year 1	•	<i>With guidance from their teacher children can create a tally chart to record their observations</i> <i>With guidance from their teacher children can create pictograms</i>	Tally Table graph Record Observe pictogram	
Year 2			Data Compare Total Block diagram categories Graph Bar chart Intersection Carroll diagram vote, block graph, represent, group, set, list, table, label, title, most popular, most common, least popular, least common	
Year 3			Interpret, represent, data, bar chart, pictogram, table, key, axis, label, most, least, find the difference, how many more, how many less	

Year 5	omplete, read and interpret information in tables, including timetables olve comparison, sum and difference problems using information presented in a line graph nterpret and construct pie charts and line graphs and use these to solve problems	scale, origin, multiple Database, frequency table, bar line chart, line graph, axis, least common maximum/minimum value, outcome
calcul		
	late and interpret the mean as an average	count, tally, sort, vote survey, questionnaire, data, database graph, block graph, pictogram represent group, set, list, table, chart, bar chart, frequency table, bar line chart Carroll diagram, Venn diagram line graph pie chart label, title, axis, axes diagram most popular, most common least popular, least common maximum/minimum value outcom, mean

Year 1	 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = * - 9 represent and use number bonds and related subtraction facts within 20 sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening 	Concrete, pictorial, representation, missing number, number bonds, fact families, sequence, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening	
Year 2	 recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 compare and sequence intervals of time order and arrange combinations of mathematical objects in patterns 		
Year 3	 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 integer scaling 	Problem, missing number, number fact, number bonds, digit, place value, add, plus, more, less, Subtract, take away, fewer, find the difference, total, answer, equals multiplication, multiply, times, divide, division, lots of, groups of, equal groups, inverse operation	
Year 4	• Perimeter can be expressed algebraically as 2(a + b) where a and b are the dimensions in the same unit.	Algebra, represent, equivalent, length, perimeter.	
Year 5	• use the properties of rectangles to deduce related facts and find missing lengths and angles		
Year 6	 express missing number problems algebraically find pairs of numbers that satisfy number sentences involving two unknowns enumerate all possibilities of combinations of two variables use simple formulae recognise when it is possible to use formulae for area and volume of shapes generate and describe linear number sequences 	formula, formulae equation unknown variable	Muslim Heroes – Al- Khawarizmi – inventor of Algebra • <u>https://kids.britan</u> <u>nica.com/kids/artic</u> <u>le/Al-</u> <u>Khwarizmi/399905</u> • <u>https://www.youtu</u> <u>be.com/watch?v=2</u> <u>lxKeDpPUVw</u>) • <u>https://www.youtu</u> <u>be.com/watch?v=s</u> <u>Z3fbDw838</u> • <u>SHINE links:</u> Share, Inspire, Never Give Up,

Dette and			others by inventing useful item, Excellence)
Year 6	 Proportion solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	Scale, Scale factor	 Percentages - calculating zakaat Zakaat means giving charity to the poor. Muslims give zakat of 2.5% of what they have every year give children an opportunity to calculate 2:110 "And keep up the prayer and pay zakat (The poor rates); whatever good you shall forward for yourselves, you shall find it with Allah; surely Allah sees what you do." Some believe that this zakat is payable on everything you own and others believe it is payable on certain property (e.g. silver and gold coins, crops, camel, cattle, sheep, goats, revenue from trade) Links to SHINE - Share, Help each other (values: service, compassion, respect, integrity)