

	Autumn 1	Autumn 2	Spring 1	Spring2	Summer 1	Summer 2
Year 7	Unit 1 – N1 – Calculation	Unit 4 – S1 – Collect &	Unit 8 – S2 – Probability	Unit 11 – G3 – Triangles &	Unit 14 - G4 -	Functional Skills and
	Methods & Number	Process Data	Unit 9 – N3 – Fractions,	Constructions	Transformations	Intervention
	Properties	Unit 5 – N2 – Factors,	Decimals & Percentages	Unit 12 – S3 – Represent		
	Unit 2 – A1 – Algebraic	Multiples & Indices	Unit 10 – A3 - Sequences	& Interpret Data	Unit 15 - A4 – Functions &	
	Conventions	Unit 6 – A2 – Equations,		Unit 13 – N4 –	Graphs	
	Unit 3 – G1 – Properties Of	Inequalities & Formulae		Approximation & Ratio		
	2D & 3D Shapes	Unit 7 – G2 – Angles &				
		Measures				
Example	Unit 1 - 1002 - 998 using a	Unit 4	Unit 8 – S2 – Probability	Unit 11	Unit 14	Functional Skills – Maths
task(s)	number line is more	Sort simple data into	Pupils should be able to	Investigate which regular	Reflect a shape by	for everyday life
	efficient than column	categories	give the likelihood of it	polygons will tessellate	counting the number of	for everyddy me
	method etc	Using numerical and non-	raining in Blackpool on a	(regular tessellations).	squares between a point	Understanding debit,
	E.g. 3 < 8	numerical data find the	day in October/Sun rising		and the mirror line.	credit, interest, tax and
	Use of column method	mode from lists, bar	tomorrow. Understand	Unit 12	Understand the object	VAT.
	with carrying and	charts, pie charts and tally	the meaning of certain,	Use numerical and non-	and image are the same	
	borrowing as necessary.	charts. Be able to group	likely/unlikely, impossible	numerical data to sort	distance from the mirror	
	Ensure pupils can carry	data into equal class	and even chance.	into Venn and Carroll	line.	
	out calculations such as	intervals and find the	Understand that even	diagrams		
	2.34 +5.78+7.81 and 6.2-	modal class interval.	chance does not simply		Colour a square so that it is	
	3.81 by written method	Unit 5	mean it can happen or not	Unit 13	symmetrical	
	Unit 2 -	Ensure pupils can carry out	(a common	34 x2 = ? X 2 = 638 etc		
	Rule is x 2 +1 or 2n +1 or	calculations such as 2.34	misconception).		Unit 15	
	y = 2x + 1	+5.78+7.81 and 6.2-3.81	Unit 9	27 is 30 to the nearest 10,	Plot and join points to	
		by written method	Shade a fraction given a	345 is 300 to the nearest	make mathematical	
	n + 5 means a number plus	Unit 6	shape that has been split	100 etc	shapes in one quadrant.	
	5	Add and subtract mentally	into equal parts.			
		and using a variety of pen	Shade a percentage when	depending on the context:	Plot and join points to	
	Unit 3 -	and paper methods e.g	cut into 100, 50 or 10	 A display of '3.5' could 	make mathematical	
	Know some of the	column method and using	parts	mean £3.50,	shapes in all 4 quadrants.	
	features of triangles and	a number line.	Unit 10	Or 3 kilograms and 500		
	quadrilaterals	Unit 7	Identify odd and even	grams.		
		Use a ruler correctly,	numbers. Colour Pascal's			
		knowing the start of the	triangle.			
		ruler is not where to start				
		measuring from.	1	1	1	l



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Unit 1 – N1 – Calculation Methods & Number Properties Unit 2 – A1 – Algebraic Conventions Unit 3 – G1 – Properties Of 2D & 3D Shapes Unit 4 – N2 – Factors, Multiples & Indices	Unit 5 – S1 – Collect & Process Data Unit 6 – A2 – Equations, Inequalities & Formulae Unit 7 – G2 – Angles & Measures Unit 8 – N3 – Fractions, Decimals & Percentages	Unit 9 – S2 – Probability Unit 10 – A3 – Sequences Unit 11 – G3 – Triangles & Constructions	Unit 11 – G3 – Triangles & Constructions Unit 12 – S3 – Represent & Interpret Data Unit 13 – N4 – Approximation & Ratio Unit 14 - G4 - Transformations	Unit 14 - G4 - Transformations Unit 15 - A4 – Functions & Graphs	Functional Skills and Intervention
task(s)	Unit 1 Know that 0.12 is smaller than 0.3 -3 +5 = 2, 4 - 7 = -3 progress to -2 +-2 = -4 etc Unit 2 n + 5 means a number plus 5 3a means '3 lots of a' or '3 times a' Unit 3 Know the names of polygons from triangle to decagon. Know the common quadrilaterals Unit 4 Understand terms factor, multiple and prime	Unit 5 Determine the sample size and type, e.g. who to ask, how many to ask, where and when the sample should be taken. Unit 6 Add and subtract mentally and using a variety of pen and paper methods e.g column method and using a number line. Unit 7 Know Kg, g for mass, Km, m, cm, mm for length and L and ml for capacity Unit 8 State what fraction is shaded when the denominator is equal to the number of parts extending to fractions that can be simplified.	Unit 9 From a coloured spinner write the probability of each sector as a fraction. P(red on a spinner) = 2/7. Be able to list all the outcomes. Unit 10 From a given sequence of numbers work out a rule using one of the 4 operations. Find the first 10 triangle and square numbers and describe how the sequence is generated. How do you go about finding missing numbers in a sequence? Unit 11 Construct a rhombus given the sides and angles.	Unit 11 - Construct a triangle with a base of 7cm and 2 angles of 50° and 65° at either end. Unit 12 Use a pie chart cut into 1/2, 1/4, 1/8 and 1/3. Know the angles that correspond to these fractions. Unit 13 2.57 = 2.6 to 1 dp, 3.8176 = 3.82 to 2 dp Unit 14 Enlarge a shape by doubling or trebling the sides, NO centre of enlargement. Give the scale factor of an enlargement. EXT to fractional scale factors and using a centre of enlargement	Unit 14 Translate an object given instructions in words (eg 5 left and 2 down), including negatives. EXT to using vectors Unit 15 Produce a graph which can be used to convert between currencies or kg to lb etc.	Functional Skills – Maths for everyday life Understanding debit, credit, interest, tax and VAT.



	Autumn 1	Autumn 2	Spring 1	Spring2	Summer 1	Summer 2
Year 9	Unit 1 – N1 – Calculation	Angles	Basic Decimals	Indices	Circumference and Area	Basic Probability
	Methods & Number	Basic Fractions	Rounding	Perimeter and Area	Statistical measures	Calculating with
	Properties	Scale Diagrams and	Collecting and Presenting	Basic Percentages	Ratio and Proportion	percentages
	Unit 2 – A1 – Algebraic	Bearings	Data	Equations	Scatter Graphs	Functional Skills
	Conventions	Sequences	Indices			
	Unit 3 – G1 – Properties Of	Co-ordinates and Linear				
	2D & 3D Shapes	Graphs				
	Unit 4 – N2 – Factors,					
	Multiples & Indices					
Example	Unit 1	Distinguish between	Add, subtract, 2 multiply	Estimate the value of a	Recall the definition of a	Design and use two-way
task(s)	Know and use the word	acute, obtuse, reflex	and divide decimals using	power of a given positive	circle	tables
	integer and the equality	and right angles	both mental and written	number	 identify and name the 	• complete a two-way
	and inequality symbols	 name angles 	methods	 estimate the value of 	parts of a circle	table from given
	 order positive and/or 	 use one lower-case 		the root of any given	 draw the parts of a circle 	information
	negative numbers given as	letter or three upper-	Perform money	positive number	 understand related 	
	integers.	case letters to	calculations, writing	Identify and name	terms of a circle	 complete a frequency
	Work out a root of a	represent an angle, for	answers using the correct	common solids, for	 draw a circle given the 	table for the outcomes
	number from a product of	example x or ABC	notation	example cube, cuboid,	radius or diameter.	of an experiment
	prime factors	Apply the four rules to	 round numbers to the 	prism, cylinder, pyramid,		Use percentages,
	Unit 2	fractions with and	nearest whole number,	cone and sphere	Find the mean for a	decimals or fractions
	understand phrases such	without a calculator	10, 100 or 1000 (2)		discrete frequency	to calculate
	as 'form an equation', 'use	multiply and divide a		Use percentages in real-	distribution	proportions 3
	a formula', 'write down a	fraction by an integer, by	Draw bar charts including	life situations 3	• find the median for a	
	term', 'write an	a unit fraction and by a	composite bar charts and	 calculate a percentage 	discrete frequency	calculate reverse
	expression' and 'prove an	general fraction	dual bar charts	increase or decrease	distribution	percentages
	identity' when answering	Use and interpret maps	 understand which of the 		• find the mode or modal	
	a question	and scale drawings	diagrams are appropriate	use formulae from	class for frequency	
	 recognise that, for 	• use a scale on a map to	for different types of data	mathematics and other	distributions	
	example, $5x + 1 = 16$ is an	work out an actual length		subjects expressed	Understand the meaning	
	equation		Calculate and recognise	initially in words and then	of ratio notation	
	 recognise that, for 		powers of 2, 3, 4, 5	using letters and symbols	• interpret a ratio as a	
	example, V = IR is a		 calculate and recognise 		fraction	
	formula		powers of 10			



	Autumn 1	Autumn 2	Spring 1	Spring2	Summer 1	Summer 2
Year 10	Transformation Number Measures Functional Skills Revision	Expressions recap and extension Construction and Loci Real Life Graphs Prop of Polygons 2D rep. of 3D Graphs Equations recap and Extension	Functional Skills Revision Congruence and Similarity Review of Basic Probability	GCSE Mock Revision Further Perimeter and Area Graphical representation Further Circumference and Area	Pythagorus's Theorum Intro to Trigonometry Simultaneous Equations Functional Skills Revision	Standard Form Inequalities Representing Data
Example task(s)	 Describe and transform 2D shapes using single rotations understand that rotations are specified by a centre and an angle write a number as the product of its prime factors and use formal work out a root of a number from a product of prime factors understand and use compound measures and compound units including area, volume, speed, rates of pay, density and pressure 4 understand speed and know the relationship between speed, distance and time 	understand that algebra can be used to generalise the laws of arithmetic 2 • manipulate an expression by collecting like terms • write expressions to solve problems • write expressions using squares and cubes • factorise algebraic expressions by taking out common factors • multiply a single term over a bracket, for example, a(b + c) = ab + ac • know the meaning of and be able to simplify, for example 3x - 2 + 4(x + 5)	understand congruence • identify shapes that are congruent • understand and use conditions for congruent triangles: SSS, SAS, ASA and RHS • recognise congruent shapes when rotated, reflected or in different orientations • understand and use SSS, SAS, ASA and RHS conditions to prove the congruence of triangles using formal arguments, and to verify standard ruler and compass constructions. design and use two-way tables 2 • complete a two-way table from given information 2 • complete a frequency table	calculate the area of shapes made from triangles and rectangles • calculate the area of compound shapes made from two or more rectangles, for example an L shape or T shape • calculate the area of shapes drawn on a grid • calculate the area of simple shapes solve simple linear equations by using inverse operations or by transforming both sides in the same way 3 • solve simple linear equations with integer coefficients where the unknown appears on one or both sides of the equation or where the equation involves brackets	understand, recall and use Pythagoras' theorem in 2D problems understand similarity • understand similarity of triangles and use this to make geometric inferences understand, recall and use trigonometric relationships in right-angled triangles • use the trigonometric relationships in right- angled triangles to solve problems, including those involving bearings. • solve simultaneous linear equations by elimination or substitution or any other valid method • find approximate solutions using the point of intersection of two straight lines.	 know, use and understand the term standard from write an ordinary number in standard form write a number written in standard form as an ordinary number know the difference between <, ≤, ≥, >and solve simple linear inequalities in one variable represent the solution set of an inequality on a number line, knowing the correct conventions of an open circle for a strict inequality and a closed circle for an included boundary



	Autumn 1	Autumn 2	Spring 1	Spring2	Summer 1	Summer 2
Year 11	Volume	Trigonometry	Mock Exam and revision	Quadratic Graphs	Vectors	Exams
Scheme of	Probability	Algebraic Graphs	Surface Area	Solving Quadratic	Algebra Recap and Review	
Work	Algabraic Quadratics	Sketching Graphs	Direct and Inverse	Equations	Exams Revision	
	Review and Revision		Proportion	Growth and Decay		
Example	Calculate the volume of	Understand, recall and	work out the surface	draw, sketch, recognise	Understand and use	
ask(s)	spheres, pyramids, cones	use trigonometric	area of spheres,	and interpret linear	vector notation	
	and composite solids	relationships in right-	pyramids and cones	functions	 calculate and represent 	
	determine when it is	angled triangles	 work out the surface 	 calculate values for a 	graphically the sum of	
	appropriate to add	 use the trigonometric 	area of compound	quadratic and draw the	two vectors, the	
	probabilities	relationships in right-	solids constructed from	graph	difference of two	
	 determine when it is 	angled triangles to solve	cubes, cuboids, cones,	 draw, sketch, recognise 	vectors and a scalar	
	appropriate to multiply	problems, including	pyramids, cylinders,	and interpret quadratic	multiple of a vector	
	probabilities	those involving	spheres and	graphs	calculate the resultant of	
	 understand the meaning 	bearings.	hemispheres		two vectors	
	of independence for	solve simple linear	give answers in terms Solve quadratic equations • understand and use the			
	events	equations by using	of π and use values	by factorising	commutative and	
	 calculate probabilities 	inverse operations or by	given in terms of π in	 read approximate 	associative properties of	
	when events are	transforming both sides	calculations.	solutions from a graph.	vector addition.	
	dependent	in the same way				
	 understand the 	 solve simple linear 	Use proportion to solve	Solve problems involving	Calculate the area under	
	implications of with or	equations with integer	problems using informal	repeated proportional	a graph consisting of	
	without replacement	coefficients where the	strategies or the unitary	change	straight lines 4	
	problems for the	unknown appears on	method of solution 2	 use calculators to 		
	probabilities obtained	one or both sides of the equation or where the equation involves brackets	 use direct proportion 	explore exponential		
	• complete a tree diagram		to solve geometrical	growth and decay using a		
	to show outcomes and		problems	multiplier and the power		
	probabilities		 calculate an unknown 	 solve compound 		
	• use a tree diagram as a		quantity from quantities	interest problems.		
	method for calculating		that vary in direct			
	probabilities for		proportion or inverse			
	independent or		proportion 3			
	dependent events.					