

## Maths Key Stage 4 Curriculum Overview



## **Key Stage 4 Curriculum Overview Maths**

Year 10	Week 1							Week ■ 39
F C/O H	Unit 1 Number	Unit 2 Algebraic Manipulation and equations	Unit 3 Data	Unit 4 Fractions, Decimals, and percentages	Unit 5 Angles and Trigonometry	Unit 6 Graphs	Unit 7 Area and Volume	Unit 8 Transformations and Constructions
Key content (know thatKnow how)	BIDMAS 4 operations with: • negative numbers • Decimals Round numbers to: • Decimal places • Significant figures Factors and Multiples Powers and Roots.  Related Calculations Estimation Prime factors HCF and LCM Standard Form Negative indices Fractional Indices Simplify Surds Calculate with Surds Rationalise the denominator Complex powers	Simplify expressions:	<ul> <li>Draw and read</li> <li>data tables</li> <li>bar charts</li> <li>line graphs</li> <li>composite bar charts</li> <li>Stem and leaf</li> <li>Back-to-back stem and leaf.</li> <li>Read two-way tables</li> <li>Find the mean, mode and median from raw data.</li> <li>Draw two-way tables</li> <li>Draw and interpret:</li> <li>Pie charts</li> <li>Scatter Graphs</li> <li>Time series</li> <li>Find the mean mode and from discrete and grouped data</li> <li>Use averages and range to compare data</li> </ul>	Shade simple fractions Convert between fractions, decimals and percentages Simplify fractions Write a number as a fraction of another Convert between improper fractions and mixed numbers Order fractions, decimals and percentages Write one number as a percentage of another Calculate percentages (calc and non-calc) Simplify ratio Share an amount in a given ratio  Add and subtract fractions and mixed numbers	Recognise geometric properties of shapes To know and use correct geometric notation for lines and angles Understand and use alternate and corresponding angles on parallel lines Use basic angle facts to find missing angles (straight line, point and vertically opposite) Solve angle problems in triangles Solve angle problems in quadrilaterals Calculate interior and	Plot and read co-ordinates in all four quadrants Recognise, name and plot straight-line graphs parallel to the axes Generate and coordinates from a rule Draw and intercept graphs from real data (e.g. conversion graphs)  Find the midpoint of a line segment Plot straight-line graphs from an equation Identify gradient and y-intercept from an equation and interpret their meaning	Calculate the area and perimeter of rectangles, triangles, and parallelograms Calculate missing lengths when given the area Find the surface area of cubes and cuboids Find the volume of cubes and cuboids  Calculate the area and perimeter of a trapezium Find the area and perimeter of compound shapes Convert between area and volume measures	Draw a reflection of a shape in a mirror line Enlarge a shape given a scale factor Recognise 3D shapes and their properties Draw nets of 3D solids  Translate a shape and describe a translation on a coorindate grid using a vector Reflect a shape and describe a reflection on coordinate grid Rotate a shape and describe roation on a coorindate grid Rotate a shape and describe roation on a coorindate grid Enlarge a shape through a centre of enlargement Describe an enlargement Transform shapes

Product Rule	Factorise quadratics	Estimate	Multiply and	exterior angles	Find the	Calculate the	using more than
Estimate powers	Solve linear	sample sizes	divide fractions	in regular	equations of	surface area of	one
and roots	inequalities	and list	and mixed	polygons	straight-line	a prism	transformation
	Present inequalities on	limitations.	numbers	Calculate	graphs from the	Calculate the	Describe
	a number line		Calculate	interior and	graph	volume of a	combined
	Solve inequalities with	Find the median	percentage	exterior angles	Find the	prism	transformations
	unknown on both sides	from grouped	increase/decrease	in polygons	equations of	Calculate the	Interpret and
	Expressions, identities,	data	Use percentage		straight line	area and	draw plans and
	and formula	Reverse mean	multipliers		when given two	circumference	elevations of 3D
		Equation of a	Solve reverse		points or when	of circles, semi-	shapes
	Expand triple brackets	line of best fit	percentage	Form and solve	given two one	circles, and	Draw and
	Linear equations with	and interpret	problems	equations	point and the	quarter-circles	interpret scale
	fractions	Draw and	Calculate simple	based on	gradient	Find the area	diagrams
	Nth term of a	interpret:	interest	geometrical	Identify parallel	and arc length	Bisect lines and
	quadratic	<ul> <li>Cumulative</li> </ul>	Calculate	information	lines	of a sector	angles using a
	Problems with	frequency	compound	Solve	Draw and	Calculate the	ruler and a
	geometric sequences	curves	interest and	geometrical	interpret	volume and	compass
	Factorise quadratics	Box Plots	depreciation	problems,	distance-time	surface area of	Construct
	where a>1	<ul> <li>Histograms</li> </ul>	Calculate	giving reasons	graphs	a cylinder	perpendiculars
	Difference of two		percentage	for each stage	Draw and	Calculate the	through a point
	squares		change	of working.	interpret	surface area and	on a line and from
	Solve quadratics by:		Write ratios in the	Use Pythagoras	velocity-time	volume of a	a point to a line
	<ul><li>Factorising</li></ul>		form 1:m and m:1	Theorem to	graphs	sphere	Construct
	<ul> <li>Formula</li> </ul>		Solve reverse ratio	find the	Rearrange	Calculate the	triangles given
	<ul> <li>Completing the</li> </ul>		problems	missing side in	equations into	surface are and	SSS, ASA, SAS etc
	square			a right-angle	the form	volume of a	Draw and identify
	Complete the square		Convert a	triangle	y = mx + c	cone	regions bound by
	Finding turning points		recurring decimal	Use	Draw and	Calculate the	loci to solve
	Simultaneous		to a fraction	trigonometry	interpret	volume and	practical problems
	Equations: linear and		Solve more	to find a	quadratic	surface area of	Find and use
	non-linear.		complex problems	missing side or	graphs	a pyramid	bearings
			involving	angle in a	Draw graphs of		Use angles in
			compound growth	right-angle	cubic functions	Find upper and	parallel lines to
			and decay	triangle	Recognise a	lower bounds	solve problems
			Combine two or	To know and	graph from its	and apply this to	involving bearings
			more ratios	apply the exact	shape	area problems	Enlarge a shape
			Subdivide ratios				through a centre

	Solve problems	values of	Solve equations	Apply upper and	of enlargement
	involving changing	trigonometry	using quadratic	lower bounds to	with a negative
	ratios	trigonometry	graphs	area and	scale factor
	141103		Draw graphs of	volume	Scarc ractor
		Solve more	reciprocal	problems	Interpret
		complex	functions	Find the angle	invarience in
		problems	Turicuons	or radius of a	transformations
		involving		sector given	problems
		angles in	Find an	area or arc	Apply Pythagoras
		polygons	estimated	length	and trigonometry
		Use	equation of a	Find the area of	to bearing
			line of best fit		problems
		trigonometry to find angles	on a scatter	a segment of a circle	problems
		of elevation	graph	Solve more	
		and depression	Find equations		
		To understand	of lines parallel	complex problems	
		proof of how	or lines parallel	involving cones	
		to derive the	perpendicular	and spheres	
		exact values	1	and spheres	
		for	to a given line Solve complex		
			co-ordinate		
		trigonometry Know and			
			geometry		
		apply the sine rule to find	problems		
			involving		
		unknown sides	parallel and		
		and angles Know and	perpendicular lines		
		apply the	Draw the graph of a circle with		
		cosine rule to find unknown			
			centre (0,0) Find the		
		sides and			
		angles	equation of a		
		Know and	tangent to a		
		apply area =	circle through a		
		1/2ab Sin c to	given point		
		calculate the	Solve		
		area, sides or	simultaneous		

					angles in any	equations		
					triangle	graphically		
					triangle	including		
						approximate		
						solutions		
						Represent		
						inequalities		
						•		
	Students will have	Students should have	Students should	Students should	Students	graphically Students should	Students should	Students should
				be able to use the	should be able	be able to plot	be able to	
	an appreciation of	prior knowledge of	have experience			coordinates and	measure lines	recognise reflection
	place value, and	some of these topics,	of tally charts.	four operations of	to use a ruler			
	recognise even	as they are	Students will	number.	and protractor.	read scales	and recall the	symmetry, be able
	and odd numbers.	encountered at Key	have used	Students should	Students	Students should	names of 2D	to identify and
	Students will have	Stage 3:	inequality	be able to find	should have an	be able to	shapes.	draw lines of
	knowledge of	12 the ability to use	notation.	common factors.	understanding	substitute into a	Students should	symmetry, and
	using the four	negative numbers with	Students must	Students have a	of angles as a	formula.	be able to use	complete
	operations with	the four operations	be able to find	basic	measure of	Students should	strategies for	diagrams with
	whole numbers.	and recall and use	the midpoint of	understanding of	turning.	be able to	multiplying and	given number of
	Students should	hierarchy of operations	two numbers.	fractions as being	Students	square negative	dividing by	lines of symmetry.
	have knowledge	and understand	Students should	'parts of a whole'.	should be able	numbers.	powers of 10.	Students should
agp	of integer	inverse operations;	be able to use	Students should	to name angles	Students should	Students should	recognise rotation
Prior Knowledge	complements to	dealing with decimals	the correct	be able to define	and distinguish	be able to	be able to find	symmetry and be
Kno	10 and to 100.	and negatives on a	notation for	percentage as	between	substitute into	areas by	able to identify
<u>.</u>	Students should	calculator; using index	time using 12-	'number of parts	acute, obtuse,	formulae.	counting	orders of
<u> </u>	have knowledge	laws numerically.	and 24-hour	per hundred'.	reflex and right	Students should	squares and	rotational
	of strategies for	Students should be	clocks.	Students should	angles.	be able to plot	volumes by	symmetry, and
	multiplying and	able to use inequality	Students should	know number	Students	points on a	counting cubes.	complete
	dividing whole	signs between	be able to	complements to	should be able	coordinate grid.	Students should	diagrams with
	numbers by 2, 4,	numbers.	calculate the	10 and	to rearrange	Students should	be able to	given order of
	5, and 10.	Students should be	midpoint of two	multiplication	simple	be able to	interpret scales	rotational
	Students should	able to use negative	numbers.	tables.	formulae and	expand single	on a range of	symmetry.
	be able to read	numbers with the four	Students will		equations, as	brackets and	measuring	Students should
	and write	operations, recall and	have drawn the		preparation for	collect 'like'	instruments.	recall basic
	decimals in	use the hierarchy of	statistical		rearranging	terms. Students		shapes.
	figures and words.	operations and	diagrams in unit		trigonometric	should be able		Students should
	Students will have	understand inverse	3.		formulae.	to recall and		be able to plot
	encountered	operations.				apply		

	squares, square	Students should be	Students will		Students	Pythagoras'		points in all four
	roots, cubes and	able to deal with	have used		should recall	Theorem and		quadrants.
	cube roots and	decimals and negatives	inequality		basic angle	trigonometric		Students should
	have knowledge	on a calculator.	notation.		facts.	ratios.		have an
	of classifying	Students should be			Students			understanding of
	integers.	able to use index laws			should			the concept of
		numerically.			understand			rotation.
		Students should be			when to leave			Students should
		able to draw a number			an answer in			be able to draw
		line.			surd form.			and recognise
					Students can			lines parallel to
					plot			axes and y = x, y =
					coordinates in			-x.
					all four			Students will have
					quadrants and			encountered the
					draw axes.			terms clockwise
								and anticlockwise
								previously.
	N3	A1	S2	N1	G3	A8	G16	G12
(s	N1/2	A1	S2	N10	G1	A10	G16	R12
tive	N13/14	A2	S2	N3	G3	A7	G16	G12
ojec	N15	A2	S2	R3	G3	R1	G16	G13
do	N15	A4	S4	N2	G3			
es c an	N4/N5	A4	S2	N1	G3	A8	G16	G24
cti Vork	N6	A7		R9	G3	A9	G17	G7
bje of v		A17	S2	R9	G3	A10	R1	G7
nt C	N3	A23	S4	R4		A10	G17	G7
che	N14		S6	R5	G6	A10	G17	G7
sess on s	N4	A4	S4		G20	A10	G18	G7
Assarso	N4/5	A1	S4	N2/N8	G20	A14	G18	G8
SCSE e Pe	N7	A4	S4	N2/N8	G21	A14	G16	G13
o <del>ğ</del>	N9	A4	S1	R9		A9	G17	R2
۸it	N7	A21	S4	R9	A6	A12	G17	G2
GCSE Assessment Objectives (in line with the Pearson scheme of work and objectives)		A21	S2	R9	G22	A12	G17	G2
. <u>:</u>	N7	A5		R9	G22	A12		G2
	N7	A23/25	S4	R9	G23	A18	N1	G2
	N8	A24	S4	R9		A12	N16	G15

	N8	A4	A10	R4			G18	G15
	N6	A22	S3	R5		S6	G18	G7
	N5	A22	S4			A9	G18	
	N6	A6	S4	N10		A9		G8
			S3	R9		A16		G15
		A4		R5		A16		
		A17		R5		A19		
		A23		R5		A22		
		A24						
		A4						
		A4						
		A4						
		A18						
		A18						
		A18						
		A11						
		A19/A21						
		A19						
ts	End of Unit	End of Unit assessment	End of Unit					
Assessments	assessment		assessment	assessment	assessment	assessment	assessment	assessment
essr								
Ass								

11									Week
	<del></del>								39
C/O 7	Unit 8 Transformations and Constructions	Unit 9 Probability	Unit 10 Multiplicative Reasoning	Unit 11 F: Quadratic Equations and Graphs. H: Similarity and Congruence	Unit 12 F: Similarity, Congruence and Vectors H: Further Trigonometry	Unit 13 F: More Algebra H: Circle Theorems	Unit 14 H: Further Algebra	Unit 15 Vectors	Unit 16 H: Proportion and Graphs
Key content (know thatKnow how)	Draw a reflection of a shape in a mirror line Enlarge a shape given a scale factor Recognise 3D shapes and their properties Draw nets of 3D solids  Translate a shape and describe a translation on a coordinate grid using a vector Reflect a shape and describe a reflection on coordinate grid Rotate a shape and describe rotation on a coordinate grid	Calculate simple probabilities use two-way tables to record outcomes from two events Compare probabilities Apply systematic listings  Find probabilities of mutually exclusive events Draw and interpret sample space diagrams Work out expected results based	Use the unitary method to solve proportion problems Calculate best buys Recognise and use direct proportion on a graph Solve word problems involving direct proportion  Solve word problems involving inverse proportion Solve problems involving compound	F: plot and interpret graphs and graphs of nonstandard functions in real contexts to find approximate solutions to problems such as simple kinematic problems involving distance, speed and acceleration Solve quadratics algebraically  F: simplify and manipulate algebraic expressions by expanding	F: Describe translations as 2D vectors Identify, describe and construct congruent and similar shapes, including on coordinate axes, by considering rotation, reflection, translation and enlargement. express a multiplicative relationship between two quantities as a ratio or a fraction Compare lengths, areas and volumes using ratio	F: Order positive and negative integers, decimals and fractions; use the symbols =, ≠, <, >, ≤, ≥ understand and use the concepts and vocabulary of expressions, equations, formulae, identities, inequalities, terms and factors Understand and use standard mathematical formulae. Rearrange formulae to change the subject	Simplify algebraic fractions. Multiply and divide algebraic fractions. Solve quadratic equations arising from algebraic fraction equations. Change the subject of a formula where all variables are in the denominators. Solve 'Show that' and proof questions using consecutive integers (n, n + 1), squares a2, b2, even numbers 2n, odd numbers	Addition and subtraction of vectors. Multiplication of vectors by a scalar. Diagrammatic and column representations of vectors.  Use vectors to construct geometric arguments and proof Understand and use vector notation, including column notation, and understand and interpret vectors as displacement in the plane with	Recognise, sketch and interpret graphs of the reciprocal function and State the value of x for which the equation is not defined. Recognise, sketch and interpret graphs of exponential functions. Use calculators to explore exponential growth and decay and set up, solve and interpret the answers in growth and decay problems. "Interpret and analyse transformations

	Enlarge a shape	بياجئل أنمام مامير مر	1						
	Liliai ge a shape	probability	speed,	products of		F: Provide	Use function	an associated	functions and
	through a	Interpret	density,	two binomials	F: Make links to	arguments to	notation.	direction.	write the
	centre of	probabilities	pressure)	simplify and	similarity	show	Find $f(x) + g(x)$	Find the length	functions
	enlargement	based on	Use	manipulate	(including	mathematically	and $f(x) - g(x)$ ,	of a vector	algebraically:
	Describe an	experimental	kinematics	algebraic	trigonometric	to show	2f(x), f(3x) etc	using	write the
	enlargement	data Draw	formulae	expressions by	ratios) and	algebraic	algebraically.	Pythagoras'	equation of f(x)
	Transform	and interpret	Convert	factorising	scale factors	expressions are	Find the	Theorem.	+ a, or f(x – a).
	shapes using	frequency	between	quadratic	Use the basic	equivalent, and	inverse of a	Solve geometric	"
	more than one	trees	metric speed	expressions of	congruence	use algebra to	linear function.	problems in 2D	Apply to the
	transformation	Use Venn	measures	the form x2 +	criteria for	support and	Know that f^ –	where vectors	graph of $y = f(x)$
	Describe	diagrams to	Link	bx + c,	triangles (SSS,	construct	1(x) refers to	are divided in a	the
	combined	work out	proportion	including the	SAS, ASA, RHS)	arguments	the inverse	given ratio.	transformations
	transformations	probability	relationships	difference of	apply angle	use the form	function.	Understand	y = -f(x), y = f(-
	Interpret and	Use the	to ratio	two squares	facts, triangle	y = mx + c to	For two	that 2a is	x) for linear,
1	draw plans and	language of		identify and	congruence,	identify parallel	functions f(x)	parallel to a and	quadratic, cubic
	elevations of	sets when	Write and use	interpret	similarity and	lines; find the	and g(x), find	twice its length,	functions;
	3D shapes	interpreting	equations to	roots,	properties of	equation of the	gf(x).	and that a is	apply to the
	Draw and	Venn	solve	intercepts,	quadrilaterals	line through	find	parallel to –a in	graph of $y = f(x)$
	interpret scale	diagrams	problems	turning points	to conjecture	two given	approximate	the opposite	the
1	diagrams	Draw and	involving	of quadratic	and derive	points, or	solutions to	direction.	transformations
	Bisect lines and	interpret tree	direct	functions	results about	through one	equations	Produce	y = f(x) + a, y =
	angles using a	diagrams for	proportion	graphically	angles and	point with a	numerically	geometrical	f(x + a)
	ruler and a	independent	Write and use	Recognise,	sides, including	given gradient	using iteration	proofs to prove	Calculate or
	compass	events	equations to	sketch and	the fact that	A10 identify		points are	estimate
	Construct	Draw and	solve	interpret	the base angles	and interpret		collinear and	gradients of
	perpendiculars	interpret tree	problems	graphs of	of an isosceles	gradients and		vectors/lines	graphs and
	through a point	diagrams for	involving	quadratic	triangle are	intercepts of		are parallel.	areas under
	on a line and	dependent	inverse	functions	equal, and use	linear functions			graphs
	from a point to	events	proportion	plot and	known results	graphically and			(including
	a line		Recognise	interpret	to obtain	algebraically			quadratic and
	Construct	Use the	graphs	reciprocal	simple proofs	solve two			other non-linear
	triangles given	product rule	showing	graphs	Calculate:	simultaneous			graphs) and
	SSS, ASA, SAS	for finding the	inverse	solve	surface area	equations in			interpret results
	etc	number of	proportion	quadratic	and volume of	two variables			in cases such
	Draw and	outcomes for		equations	spheres,	(linear/linear)			distance–time
	identify regions	two or more		algebraically	pyramids,	algebraically;			graphs,
	bound by loci	events		by factorising;	cones and	find			velocity–time

to solve	Solve more	find	composite	approximate	graphs and
practical	complex	approximate	solids to allow	solutions using	graphs in
problems	problems	solutions	application of	a graph	financial
Find and use	involving	using a graph	congruence and	translate simple	contexts (this
bearings	conditional		similarity.	situations or	does not
Use angles in	probability	H: Make links	Apply the	procedures into	include calculus)
parallel lines to	Solve	to similarity	concepts of	algebraic	Interpret the
solve problems	algebraic	(including	congruence and	expressions or	gradient of non-
involving	probability	trigonometric	similarity	formulae;	linear graph in
bearings	problems	ratios) and	between	derive an	curved
Enlarge a shape		scale factors	lengths in	equation (or	distance-time
through a		Use the basic	similar figures	two	and velocity-
centre of		congruence	Identify,	simultaneous	time graphs:
enlargement		criteria for	describe and	equations),	For a non-linear
with a negative		triangles (SSS,	construct	solve the	distance-time
scale factor		SAS, ASA, RHS)	congruent and	equation(s) and	graph, estimate
		apply angle	similar shapes,	interpret the	the speed at
Interpret		facts, triangle	including on	solution.	one point in
invarience in		congruence,	coordinate	solve problems	time, from the
transformations		similarity and	axes, by	involving direct	tangent, and
problems		properties of	considering	and inverse	the average
Apply		quadrilaterals	rotation,	proportion,	speed over
Pythagoras and		to conjecture	reflection,	including	several seconds
trigonometry to		and derive	translation and	graphical and	by finding the
bearing		results about	enlargement	algebraic	gradient of the
problems		angles and	(including	representations	chord;
problems		sides,	fractional scale	recognise and	For a non-linear
		including	factors)	interpret	velocity-time
		the fact that	Apply addition	graphs that	graph, estimate
		the base	and subtraction	illustrate direct	the acceleration
		angles of an	of vectors,	and inverse	at one point in
		isosceles	multiplication	proportion	time, from the
		triangle are	by vectors by a		tangent, and
		equal, and use	scalar, and	H: Identify and	the average
		known results	diagrammatic	apply circle	acceleration
		to obtain	and column	definitions and	over several
		simple proofs		properties,	seconds by

Calculate:	representations	including		finding the
surface area	of vectors.	tangent, arc,		gradient of the
	or vectors.			_
and volume of	III rocognica	sector and		chord;
spheres,	H: recognise,	segment.		Interpret the
pyramids,	sketch and			gradient of a
cones and	interpret	H: Recognise		linear or non-
composite	graphs of linear	and use the		linear graph in
solids to allow	functions,	equation of a		financial
application of	quadratic	circle with		contexts.
congruence	functions,	centre at the		Interpret the
and similarity.	simple cubic	origin; find the		area under a
Apply the	functions, the	equation of a		linear or non-
concepts of	reciprocal	tangent to a		linear graph in
congruence	function	circle at a given		real-life
and similarity	To be able to	point		contexts.
between	use Pythagoras	Recognise and		
lengths in	Theorem to	construct the		
similar figures	find the missing	graph of a circle		
	side in a right-	using x2 + y2 =		
H: Apply the	angle triangle	r2 for radius r		
concepts of	To be able to	centred at the		
congruence	use	origin of		
and similarity,	trigonometry to	coordinates.		
including the	find a missing	Apply and		
relationships	side or angle in	prove the		
between	a right angle	standard circle		
areas and	triangle	theorems		
volumes in	To know and	concerning		
similar figures	apply the exact	angles, radii,		
_	values of	tangents and		
	trigonometry	chords, and use		
	,	them to prove		
	H: know the	related results.		
	formulae for:			
	Pythagoras'			
	Theorem a2 +			
	b2 = c2 and the			

1	1	1	1		1	1	
				trigonometric			
				ratios, sine,			
				cosine, and tan;			
				apply them to			
				find angles and			
				lengths in right-			
				angled triangles			
				three			
				dimensional			
				figures			
				To be able to			
				use			
				trigonometry to			
				find angles of			
				elevation and			
				depression			
				To understand			
				proof of how to			
				derive the exact			
				values for			
				trigonometry			
				Know and apply			
				the sine rule to			
				find unknown			
				sides and			
				angles			
				Know and apply			
				the cosine rule			
				to find			
				unknown sides			
				and angles			
				Know and apply			
				area = 1/2ab			
				Sin c to			
				calculate the			
				area, sides, or			

angles in any
triangle
"Recognise,
sketch and
interpret
graphs of
exponential,
functions
y = kx for
positive values
of k, and the
trigonometric
functions (with
arguments in
degrees) y = sin
x, y = cos x and
y = tan x for
angles of any
size"
sketch
translations and
reflections of a
given function
and apply to
the graph of y =
f(x) the
transformations
y = -f(x), y = f(-
x) for sine,
cosine and tan
functions f(x).
"sketch
translations and
reflections of a
given function
and apply to
the graph of y =

					f(x) the				
					transformations				
					y = f(x) + a, y =				
					f(x + a)				
					for sine, cosine				
					and tan				
	Ct. danta da alla	Charlente	Charles	Charlente	functions f(x)."	Ctda.ata.alaalal	Charle at a sheard al	Charlente att	Ct. doubte also ald
	Students should	Students	Students	Students should be able	Students should	Students should	Students should	Students will	Students should
	recognise	should	should be able		be able to	be able to draw	be able to	have used	be able to draw
	reflection	understand	to interpret	to square	recognise and	linear graphs.	simplify surds.	vectors to	linear and
	symmetry, be	that a	scales on a	negative	enlarge shapes	Students should	Students should	describe	quadratic
	able to identify	probability is	range of	numbers.	and calculate	be able to plot	be able to use	translations and	graphs.
	and draw lines	a number	measuring	Students	scale factors.	coordinates and	negative	will have	Students should
	of symmetry,	between 0	instruments.	should be able	Students should	sketch simple	numbers with	knowledge of	be able to
	and complete	and 1, and	Students	to substitute	have	functions with a	all four	Pythagoras'	calculate the
	diagrams with	distinguish	should be able	into formulae.	knowledge of	table of values.	operations.	Theorem and	gradient of a
	given number	between	to find a	Students	how to	Students should	Students should	the properties	linear function
	of lines of	events which	percentage of	should be able	calculate area	be able to	be able to recall	of triangles and	between two
	symmetry.	are	an amount	to plot points	and volume in	substitute into	and use the	quadrilaterals.	points.
, e	Students should	impossible,	and relate	on a	various metric	and solve	hierarchy of		Students should
ledg	recognise	unlikely, even	percentages to	coordinate	measures.	equations.	operations.		recall
OW	rotation	chance, likely,	decimals.	grid.	Students should	Students should	Students should		transformations
Prior Knowledge	symmetry and	and certain to	Students	Students	be able to	have	be able to draw		of trigonometric
iż	be able to	occur.	should be able	should be able	measure lines	experience of	linear and		functions.
	identify orders	Students	to rearrange	to expand	and angles, and	using formulae.	quadratic		Students should
	of rotational	should be	equations and	single	use compasses,	Students should	graphs.		have knowledge
	symmetry, and	able to mark	use these to	brackets and	ruler and	recall and use	Students should		of writing
	complete	events and/or	solve	collect 'like'	protractor to	the hierarchy of	be able to		statements of
	diagrams with	probabilities	problems.	terms.	construct	operations and	calculate the		direct
	given order of	on a	Students		standard	use of	gradient of a		proportion and
	rotational	probability	should know	Students	constructions.	inequality	linear function		forming an
	symmetry.	scale of 0 to 1.	speed =	should be able		symbols.	between two		equation to find
	Students should	Students	distance/time,	to recognise	Students should		points.		values
	recall basic	should know	density =	and enlarge	be able to use	Students should	Students should		
	shapes.	how to add	mass/volume	shapes and	axes and	have practical	recall		
	Students should	and multiply		calculate scale	coordinates to	experience of	transformations		
	be able to plot			factors.	specify points in	drawing circles	of		

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A12
R16
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A15
R15
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	G2	P7		R6	A12	G9			
	G2	P9		G5	G20				
	G2	P9		G6	G20	A16			
	G15			G17	G21	A16			
	G15			G19		G10			
	G7				G20				
				G19	A6				
	G8				G22				
	G15				G22				
					G23				
					A12				
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22	End of Unit								
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