

Curriculum Map

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2	
Content	Unit 8: Area, Perimeter, Volume	Unit 9: Graphs Unit 10: Transformations	Unit 11: Ratio and proportion	Unit 12: Right-angled triangles Unit 13: Probability	Unit 14: Multiplicative reasoning	Unit 15: Constructions, loci and bearings	
Skills	Students will Unit 8: Area & Perimeter Convert between units of measurement. Find the area & perimeter of 2D shapes Find the surface area and volume of cuboids, Cones, spheres, pyramids etc. Find area and circumference of circles.	Students will Unit 9: Graphs Find coordinates, draw linear graphs, find the gradient, y = mx + c, work with Real-life graphs, and Distance-time graphs, Unit 10: Transformations Draw and describe translation, reflection, rotation, enlargement, and a combination of them.	Students will Unit 11: Ratio and proportion Write ratio, simplify and calculate with ratio including with measures, Solve problems with proportion – direct and inverse, interpret proportion graphs and calculate best buy.	Students will Unit 12: Right-angled triangles Be able to find missing lengths and angles by using trigonometry (SOHCAHTOA) and Pythagoras Unit 13: Probability Calculate probability involving two events and experimental probability. Be able to use Venn diagrams and Tree diagram to calculate probability	Students will Unit 14: Multiplicative reasoning learn to work with percentages including growth and decay. They will work with compound measures, distance, speed and time. They will revisit direct and inverse proportion.	Students will Unit 15: Constructions, loci and bearings Students will be able to sketch and name 3D solids, draw plans and elevations, make accurate drawings, use scale drawings and maps. They will be able to work with bearings and draw loci.	

Key questions	Activelearn Textbook Unit	Activelearn Textbook	Activelearn Textbook	Activelearn Textbook	Activelearn Textbook	Activelearn Textbook
	Test	Unit Test	Unit Test	Unit Test	Unit Test	Unit Test
Assessment	End of unit assessment	End of unit	End of unit	End of unit	End of year exam –	End of unit
		assessment	assessment	assessment	2 Papers (SET BY TEACHERS & DEPENDENT	assessment
					ON UNIT COMPLETION BY	
					GROUPS)	
Literacy/	Interpreting and	Interpreting and	Interpreting and	Interpreting and	Interpreting and	Interpreting and
Numeracy/	working with	working with	working with	working with	working with	working with
SMSC/	problems in real-life	problems in real-	problems in real-	problems in real-	problems in real-	problems in real-
Character	context.	life context.	life context.	life context.	life context.	life context.
	Develop confidence	Develop	Develop	Develop	Develop	Develop
	with keywords and	confidence with	confidence with	confidence with	confidence with	confidence with
	apply the knowledge	keywords and	keywords and	keywords and	keywords and	keywords and
	to successfully solve	apply the	apply the	apply the	apply the	apply the
	the real-life problems	knowledge to	knowledge to	knowledge to	knowledge to	knowledge to
	as well as	successfully solve	successfully solve	successfully solve	successfully solve	successfully solve
	mathematical	the real-life	the real-life	the real-life	the real-life	the real-life
	reasoning.	problems as well	problems as well	problems as well	problems as well	problems as well
	Building resilience,	as mathematical	as mathematical	as mathematical	as mathematical	as mathematical
	paying attention to	reasoning.	reasoning –	reasoning.	reasoning.	reasoning.
	detail, set pride in	Building resilience,	differentiating	Building resilience,	Building resilience,	Building resilience,
	work and continue to	paying attention	between theory	paying attention	paying attention	paying attention
	advance questioning	to detail, set pride	and experimental.	to detail, set pride	to detail, set pride in work and	to detail, set pride in work and
	skills.	in work and continue to	Building resilience,	in work and continue to	continue to	continue to
			paying attention			advance
		advance questioning skills.	to detail, set pride in work and	advance questioning skills.	advance questioning skills.	questioning skills.
		Hoeshorming skills.	continue to	questioning skills.	A greater focus	questioning skills.
			advance		on effective study	
			questioning skills.		skills.	
			questioning skills.		JVIII).	



Curriculum Map

Subject: Maths
Year Group: 10H (Sets 1 – 3)

	Autumn1/Autumn2	Autumn 2	Spring 1/Spring 2	Spring 1/Spring 2	Spring 2	Summer 1	Summer 2
Content	Unit 7: Area and volume. Unit 8: Transformations and constructions.	Unit 9: Equations and inequalities	Unit 10: Probability Unit 11: Multiplicative reasoning	Unit 12: Similarity and congruence	Unit 13: More trigonometry	Unit 14: Further statistics	End of year exams Unit 15:Equations and graphs
Skills	Unit 7: Find the perimeter and area of compound shapes. Convert between metric units area. Calculate upper and lower bound of measurements. Calculate surface area and volume of prisms. Calculate the area and perimeter of sectors. Calculate the volume and surface area of cylinders and spheres. Calculate the volume and surface area of pyramids and cones.	Unit 9: Equations and inequalities Be able to solve quadratic equations, completing the square, solve simultaneous equations, linear and quadratic simultaneous equations and linear inequalities	Unit 10: Probability Calculate the probability of combined events, for mutually exclusive events, experimental probability, independent and conditional events. Be able to use tree diagrams, Venn diagrams and set notation.	Unit 12: Similarity and congruence Be able to identify congruence and similarity and calculate using scale factors including for 2D and 3D shapes. Be able to do geometric proof	Unit 13: More trigonometry Be able to calculate upper and lower bounds. Be able to draw and interpret, graph of the sine function, cosine function and tangent function. Be able to calculate areas, use the sine rule and cosine rule. Be able to solve 2D and 3D trigonometric problems. Be able to transform	Unit 14: Further statistics Be able to use and solving problems involving sampling, cumulative frequency and box plots. Be able to draw and interpret histograms. Be able to compare and describe populations	Unit 15:Equations and graphs Be able to solve simultaneous equations graphically, represent inequalities graphically, draw graphs of quadratic and cubic functions and solve quadratic equations graphically. ITERATION PROCESSES

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ACTIVELEARN BOOK	ACTIVELEARN		ACTIVELEARN	ACTIVELEARN	ACTIVELEARN	ACTIVELEARN
UNIT 7 & UNIT 8	BOOK UNIT 9	BOOK UNIT 10 &	BOOK UNIT 12	BOOK UNIT 13	BOOK UNIT 14	BOOK UNIT 15
PRACTICE TESTS	PRACTICE TEST	UNIT 11	PRACTICE TEST	PRACTICE TEST	PRACTICE TEST	PRACTICE TEST
		PRACTICE TESTS				
End of unit	End of unit	End of unit	End of unit	End of unit	End of year	End of unit
assessment	assessment	assessment	assessment	assessment	exam – 2 Papers	assessment
					1 -	
					GROUPS)	
Understanding and	Interpreting and	Interpreting and	Interpreting and	Interpreting	Interpreting	Interpreting
Interpreting worded	working with	working with	working with	and working	and working	and working
questions	_	_		with problems	with problems	with problems
	PRACTICE TESTS End of unit assessment Understanding and Interpreting worded	Draw plans and elevations of 3D solids, Carry out and describe reflection and rotation Carry out and describe enlargement and translation Carry out and describe a combination of transformations Solve problems involving bearings and scale drawings, Construct a triangle using a ruler and compasses. Construct perpendicular and angle bisectors. Use loci to solve problems. HIGHER ACTIVELEARN BOOK UNIT 7 & UNIT 8 PRACTICE TESTS End of unit assessment Interpreting and Interpreting and working with	Praw plans and elevations of 3D solids, Carry out and describe reflection and rotation Carry out and describe enlargement and translation Carry out and describe enlargement and translation Carry out and describe a combination of transformations Solve problems involving bearings and scale drawings, Construct a triangle using a ruler and compasses. Construct perpendicular and angle bisectors. Use loci to solve problems. HIGHER ACTIVELEARN BOOK UNIT 7 & UNIT 8 PRACTICE TESTS End of unit assessment HIGHER ACTIVELEARN BOOK UNIT 9 PRACTICE TESTS End of unit assessment Interpreting and Interpreting and working with Understanding and Interpreting and working with	Unit 8: Draw plans and elevations of 3D solids, Carry out and describe reflection and rotation Carry out and describe enlargement and translation Carry out and describe a combination of transformations Solve problems involving bearings and scale drawings, Construct a triangle using a ruler and compasses. Construct perpendicular and angle bisectors. Use loci to solve problems. HIGHER ACTIVELEARN BOOK UNIT 7 & UNIT 8 PRACTICE TESTS End of unit assessment HIGHER ACTIVELEARN BOOK UNIT 10 & UNIT 11 PRACTICE TEST End of unit assessment Interpreting and linterpreting and linterpreting worded Understanding and Interpreting and working with Understanding and Interpreting and working with With calculate with calculate with percentages including growth and decay Be able to calculate with compound measures. Be able to solve problems involving ratio and proportion HIGHER ACTIVELEARN BOOK UNIT 3 PRACTICE TEST End of unit assessment Interpreting and working with ACTIVELEARN BOOK UNIT 12 PRACTICE TEST End of unit assessment Interpreting and working with Understanding and Interpreting and working with	Unit 8: Draw plans and elevations of 3D solids, Carry out and describe reflection and rotation Carry out and describe enlargement and translation Carry out and describe a combination of transformations Carry out and describe a combination of transformations Solve problems involving bearings and scale drawings, Construct a triangle using a ruler and compasses. Construct perpendicular and angle bisectors. Use loci to solve problems. HIGHER ACTIVELEARN BOOK UNIT 7 & UNIT 8 PRACTICE TESTS End of unit assessment HIGHER ACTIVELEARN BOOK UNIT 10 PRACTICE TESTS End of unit assessment Interpreting and Interpreting and working with working	Unit 8: Draw plans and elevations of 3D solids, Carry out and describe reflection and describe enlargement and translation Carry out and describe enlargement and translation Carry out and describe a largement and translation Carry out and describe a combination of transformations Solve problems involving brains and scale drawings, Construct a triangle using a ruler and compasses. Construct a triangle using a ruler and compasses. Construct a triangle using a ruler and compasses. LIGHER ACTIVELEARN BOOK UNIT 9 PRACTICE TEST PRA

Character		problems in real-	problems in real-	problems in	in real-life	in real-life	in real-life
	Recognising and	life context.	life context.	real-life context.	context.	context.	context.
	appreciating its	Develop	Develop	Develop	Develop	Develop	Develop
	practical application	confidence with	confidence with	confidence with	confidence	confidence	confidence
	in real life	keywords and	keywords and	keywords and	with keywords	with keywords	with keywords
		apply the	apply the	apply the	and apply	and apply the	and apply the
		knowledge to	knowledge to	knowledge to	the	knowledge to	knowledge to
	Viewing objects and	successfully	successfully solve	successfully	knowledge to	successfully	successfully
	things in different	solve the real-life	the real-life	solve the real-	successfully	solve the real-	solve the real-
	positions and	problems as well	problems as well	life problems as	solve the real-	life problems as	life problems as
	perspectives.	as	as mathematical	well as	life problems	well as	well as
		mathematical	reasoning.	mathematical	as well as	mathematical	mathematical
	Using equipment	reasoning –	Building	reasoning.	mathematical	reasoning.	reasoning.
	correctly	differentiating	resilience,	Building	reasoning.	Building	Building
	35.1.553.1	between theory	paying attention	resilience,	Building	resilience,	resilience,
	Resilience, practicing	and	to detail, set	paying	resilience,	paying	paying
	diligence and paying	experimental.	pride in work	attention to	paying	attention to	attention to
	attention to details	Building	and continue to	detail, set pride	attention to	detail, set pride	detail, set pride
	attention to details	resilience,	advance	in work and	detail, set	in work and	in work and
		paying attention	questioning skills.	continue to	pride in work	continue to	continue to
		to detail, set		advance	and continue	advance	advance
		pride in work		questioning	to advance	questioning	questioning
		and continue to		skills.	questioning	skills.	skills.
		advance			skills.		
		questioning skills.					