Maths- Y12A

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 1 SEPT - OCT	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	
			Casha thata	Churcielet Linea and	Churchet Linger and	Binomial	De later en l	
TOPIC (S):-Pure	Algebraic manipulation,	Algebraic manipulation,	Graphs, Linear and quadratic	Straight Lines and Circles	Straight Lines and Circles	Expansion	Revision and Assessment for	
	quadratic	quadratic	inequalities.			Expansion	Pure and Statistics	
	equations and	equations and	mequantico				modules	
	simultaneous	simultaneous						
	equations.	equations						
:-Statistics								
	Statistical	Statistical	Statistical	Data presentation	Data presentation	Data presentation		
	Sampling	Sampling	Sampling	and interpretation	and interpretation	and interpretation		
Knowledge &	Pure	Understand and use the laws of indices for all rational exponents. Use and manipulate surds, including rationalising the						
Skills		denominator. Work with quadratic functions and their graphs; the discriminant of a quadratic function, including the conditions					iding the conditions	
development		for real and repeated roots; completing the square; solution of quadratic equations including solving quadratic equations						
		function of the unknown. Solve simultaneous equations in two variables by elimination and by substitution, including one linear and one quadratic equation. Manipulate polynomials algebraically, including expanding brackets and collecting like terms,						
				on; use of the factor the	orem.			
		Straight Lines and Cir						
,		Students should Re		me ligina aradiante mid	nointe and the distance	hetween two points	including the form y –	
							including the form $y =$ ts of two	
		mx + c and the form	s $y = a$ and $x = a$ for b	norizontal and vertical lin	ies, and know that the p	product of the gradient	ts of two	
		mx + c and the form	s $y = a$ and $x = a$ for h is -1 . To find the eq		ies, and know that the p	product of the gradient	ts of two	
		mx + c and the form perpendicular lines of appropriate point	s $y = a$ and $x = a$ for h is -1 . To find the eq	norizontal and vertical lin uation of a tangent or no	ies, and know that the p	product of the gradient	ts of two	
	Statistics	mx + c and the form perpendicular lines of appropriate point Note: implicit differe	s $y = a$ and $x = a$ for h is -1 . To find the eq s. ntiation will not be re	norizontal and vertical lin uation of a tangent or no quired at AS.	es, and know that the pormal at a point, and fin	product of the gradient d relevant gradients u	ts of two sing the coordinates	
	Statistics	<i>mx</i> + <i>c</i> and the form perpendicular lines of appropriate point Note: implicit differe Understand and use	s $y = a$ and $x = a$ for h is -1 . To find the eq s. ntiation will not be re the terms 'populati	norizontal and vertical lin uation of a tangent or no quired at AS. on' and 'sample'. Use sa	es, and know that the p ormal at a point, and fin amples to make informa	product of the gradient d relevant gradients u al inferences about th	ts of two sing the coordinates	
	Statistics	 mx + c and the form perpendicular lines of appropriate point Note: implicit differe Understand and use Understand and use 	s $y = a$ and $x = a$ for h is -1 . To find the eq s. ntiation will not be re the terms 'populati s sampling technique	norizontal and vertical lin uation of a tangent or no quired at AS. on' and 'sample'. Use sa es, including simple rand	es, and know that the p ormal at a point, and fin amples to make informa om sampling and oppo	oroduct of the gradient d relevant gradients u al inferences about th rtunity sampling	ts of two sing the coordinates e population.	
	Statistics	 mx + c and the form perpendicular lines of appropriate point Note: implicit differe Understand and use Select or review sar 	s $y = a$ and $x = a$ for h is -1 . To find the eq s. ntiation will not be re the terms 'populati sampling techniques npling techniques in	norizontal and vertical lin uation of a tangent or no quired at AS. on' and 'sample'. Use sa es, including simple rand the context of solving a	es, and know that the p ormal at a point, and fin amples to make inform om sampling and oppo statistical problem, inc	oroduct of the gradient d relevant gradients u al inferences about th rtunity sampling	ts of two sing the coordinates e population.	
	Statistics	 mx + c and the form perpendicular lines of appropriate point Note: implicit differe Understand and use Select or review sar 	s $y = a$ and $x = a$ for h is -1 . To find the eq s. ntiation will not be re the terms 'populati sampling techniques npling techniques in	norizontal and vertical lin uation of a tangent or no quired at AS. on' and 'sample'. Use sa es, including simple rand	es, and know that the p ormal at a point, and fin amples to make inform om sampling and oppo statistical problem, inc	oroduct of the gradient d relevant gradients u al inferences about th rtunity sampling	ts of two sing the coordinates e population.	
Assessment /	Statistics Topic assessments	 mx + c and the form perpendicular lines of appropriate point Note: implicit differe Understand and use Select or review sar 	s $y = a$ and $x = a$ for h is -1 . To find the eq s. ntiation will not be re the terms 'populati sampling techniques npling techniques in	norizontal and vertical lin uation of a tangent or no quired at AS. on' and 'sample'. Use sa es, including simple rand the context of solving a	es, and know that the p ormal at a point, and fin amples to make inform om sampling and oppo statistical problem, inc	oroduct of the gradient d relevant gradients u al inferences about th rtunity sampling	ts of two sing the coordinates e population.	
Assessment / Feedback		mx + c and the form perpendicular lines of appropriate point. Note: implicit differe Understand and use Understand and use Select or review sar samples can lead to	is $y = a$ and $x = a$ for h is -1 . To find the eq is. ntiation will not be re- the terms 'populati e sampling techniques npling techniques in different conclusion	norizontal and vertical lin uation of a tangent or no quired at AS. on' and 'sample'. Use sa es, including simple rand the context of solving a us about the population.	es, and know that the p ormal at a point, and fin amples to make informa om sampling and oppo statistical problem, inc	oroduct of the gradient d relevant gradients u al inferences about th rtunity sampling	ts of two sing the coordinates e population.	

Cultural Capital	Tolerance and respect for peers and mathematicians		
	Democracy: allowing all to speak and voice views		
SMSC / Promoting	Tolerance and respect for peers and mathematicians		
British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	Democracy: allowing all to speak and voice views		
Reading	Fermat's Last Theorem		
opportunities	History of computer programming		
	History of Florence Nightingale		
Key Vocabulary	Indices, Surds, Manipulate, Rationalise, Factorise, discriminant, Population, sample, Magnitude, Forces		
Digital Literacy	Demos for graphing. Geogebra.		
Careers	Engineer, Statistician, Business- manager, Market research. Computer Programmer, Video game development.		