S3 Mathematics National 5

TERM 1 (Aug 13th – Nov 14th, 2020)

Weeks	Topic	Subtopic
Week 1 (August 13 -15)	Algebraic Operations	Revise multiplying out brackets and tidy up 3(2x – 1) – 2(4x + 3) Multiply out double brackets and squaring brackets
Week 2, 3 (Aug 17 -29)	Algebraic Operations	Tidy up (2x + 3)(5x – 1) – (2x + 1)2 and (x + 2)3 Equations with brackets **Remember Remember**
Week 4, 5 (Aug 31 – Sep 12)	Algebraic Operations ***Algebraic Operations Assessment***	Revision
Week 6 (Sep 14 – 19)	Percentages	Revision of non-calculator percentages Revision of %age increase/decrease
Week 7, 8 (Sep 21 – Oct 3)	Percentages	Percentage profit and loss Compound interest

Week 9 (Oct 5 – 10)	Percentages ***Percentages Assessment***	Depreciation and appreciation Percentages - working backwards Remember Remember
Week 10 (0ct 12 – 17)	**MID-TERM HOLIDAY**	
Week 11 (Oct 19 – 24)	Fractions	Revision of all fraction work up to multiplication Divide fractions
Week 12 (Oct 26 – 31)	Fractions ***Fractions Assessment***	Remember Remember
Week 13 (Nov 2 – 7)	***Simultaneous Equations***	Revision of sketching lines Solve simultaneous equations graphically
Week 14 (Nov 9 - 14)	***Simultaneous Equations***	Simultaneous equations - solution by elimination – basic Simultaneous equations - solution by elimination – harder
Nov 14 - 15	**END OF TERM 1**	

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TERM 2 (Nov 16th 2020 – Feb 27th 2021)

Week 1 (Nov 16 – 21)	***Simultaneous Equations***	Simultaneous equations in two variables + associated problems
Week 2 (Nov 23 – 28)	***Simultaneous Equations*** ***Simultaneous Equations Assessment***	Remember Remember
Week 3 (Nov 30 – Dec 5)	Pythagoras' Theorem	Revision of all Pythagoras work
Week 4 (Dec 7 – 12)	Pythagoras' Theorem	Converse of Pythagoras' Theorem Pythagoras work in 3-dimensions
Week 5 (Dec 14 -19)	Pythagoras' Theorem	Remember Remember
Week 6 (Dec 21 – 23)	**Pythagoras' Theorem *Assessment*** Linear Relationships	Gradients Revision Revision of Line work including y = mx + c and x = h and y = k

Week 6 - 7 (Dec 24 – Jan 5)	**WINTER BREAK**	
Week 8 (Jan 6 – 9)	Linear Relationships	Find equation of line through A(x1,y1) and B(x2,y2) Equations of the form P = mt + c, lines in everyday use
Week 9 (Jan 11 – 16)	Linear Relationships	Gradient - a more mathematical formula The General Equation of a line Ax + By + C = 0 Remember Remember
Week 10 (Jan 18 – 23)	***Linear Relationships Assessment*** Factorising	Revision of factorising by taking out a common factor Difference of two squares, including 6x2 – 24 and x4 – 81 Trinomial expressions
Week 11 (Jan 25 – 30)	Factorising	Trinomial expressions Miscellaneous expressions
Week 12 (Feb 1 – 5)	Factorising ***Factorising Assessment***	Remember Remember

Feb (6 – 9)	**MID-TERM HOLIDAY**	
Week 13 (Feb 10 -13)	Trigonometric Formulae	Revision of SOHCAHTOA Area of a triangle - using trigonometry
Week 14 (Feb 15 -20)	Trigonometric Formulae	Sine rule - calculating a side Sine rule - calculating an angle Cosine rule - calculating a side
Week 15 (Feb 22 – 27)	Trigonometric Formulae	Cosine rule - calculating an angle Mixed problems - sine rule, cosine rules with SOHCAHTOA

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TERM 3 (March 1st – June 26th, 2021)

Week 1 (March 1- 6)	Trigonometric Formulae ***Trigonometric Formulae Assessment***	Further mixed problems Remember Remember
Week 2 (March 8 - 13)	Algebraic Fractions	Operations on algebraic fractions – simplifying Operations on algebraic fractions - factorisation
Week 3 (March 15 - 20)	Algebraic Fractions	Operations on algebraic fractions - add & subtract Operations on algebraic fractions - multiply & divide
Week 4 (March 22 - 27)	Algebraic Fractions ***Algebraic Fractions Assessment***	Remember Remember
Week 5 (March 29 – April 1st)	Changing the Subject	Change the subject of an expression – basic Change the subject of an expression - harder

Week 5 - 7 (April 2– 17)	**APRIL HOLIDAY**	
Week 8 (April 19 - 24)	Changing the Subject ***Changing the Subject Assessment***	Remember Remember
Week 9 (April 26 – May 1)	Statistics	Revision of mean, median, mode and range
Week 10 (May 3 - 8)	MAY DAY, RAMADHAN/EID HOLIDAY	
Week 11 (May 10 - 15)	**RAMADHAN/EID HOLIDAY**	
Week 12 (May 17 – 22)	Statistics	Quartiles Semi-interquartile range
Week 13 (May 24 -29)	Statistics	Box plots Standard deviation
May 28th – May 31st, 2021	**MID-TERM HOLIDAY**	
Week 14 (May 31 – June 5)	Statistics	Remember Remember

	Statistics Assessment	
Week 15 (June 7 – 12)	Functions & Graphs	Number machines and the function notation f(x)
Week 16 (June 14 – 19)	Functions & Graphs	The quadratic function
Week 17 (June 21 – 26)	***Functions Assessment*** Revision	
	END OF TERM 3	