Year 10 Maths Home learning Term 2 HIGHER

Sparx Maths is the platform we use for home learning. The goal is for every child, every week to do at least 1 hour of challenging but achievable mathematical practice outside of the classroom. This would enable children to raise their attainment and confidence in Maths. Sparx uses an algorithm to work out the level and type of questions to set each individual so they are just the right level to challenge but not too hard so that all questions can be completed.

SPARX Maths is set on a Wednesday and due the following Wednesday, for all students even if they don't have Maths that day. Every child can answer all of the questions in their compulsory homework by themselves. SPARX uses scaffolded pathways through topics which support learning unique to the individual. Every question has a support video to help answer questions they find challenging. Additional homework is available to students via XP Boost which is questions at a similar level to their compulsory home learning, target work to stretch students further and independent learning so they can look at any topic they chose and at any level of difficulty.

Homework	Topics	Homework
Set		Due
09 January	 Solving shape problems involving coordinates Finding the equation of a straight line from its gradient and a point Equations of parallel lines Consolidation 	15 January
16 January	 Using Pythagoras' theorem in 2D Translation Enlargement by a positive scale factor Consolidation 	24 January
25 January	 Calculating experimental probabilities Writing probabilities as fractions Expected results from repeated experiments Consolidation 	30 January
31 January	 Probabilities of mutually exclusive events Sample space diagrams Venn diagrams Tree diagrams for independent events 	06 February
07 February	 Reflection Enlargement by a positive or negative scale factor Understanding sin, cos and tan 	09 February
12 th -16 th February	Half Term	
21 February	 Finding unknown sides in right-angled triangles Finding unknown angles in right-angled triangles Using the exact values of trigonometric ratios (Higher) 	27 February
28 February	 Conditional probabilities from tables Conditional probabilities from Venn diagrams Using the product rule for counting 	05 March
06 March	 Index rules with positive indices 	12 March

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13 March	 Index rules with negative indices Using standard form with positive indices Using standard form with negative indices Consolidation Solving equations with two or more steps Solving equations with the unknown on both sides Multiplying and dividing numbers in standard form 	19 March
20 March	 Consolidation Solving single inequalities Solving inequalities with the unknown on both sides Solving simultaneous equations using elimination Constructing and solving linear simultaneous equations Consolidation 	25 March
26 March	 Converting recurring decimals to fractions Simplifying surds Adding and subtracting surds Multiplying and dividing surds Consolidation 	30 March
28 March	EASTER Holidays	