

Year 10 Maths Home learning Term 2 FOUNDATION

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 Set	Topics	Homework Due
09 January	<ul style="list-style-type: none"> Adding and subtracting decimals Multiplying and dividing with place value Using a written method to divide integers Consolidation 	15 January
16 January	<ul style="list-style-type: none"> Mixed problems: Finding the area and perimeter of simple shapes Finding the area of compound shapes Problem solving: Area and perimeter of rectangles and compound shapes (Foundation) Consolidation 	24 January
25 January	<ul style="list-style-type: none"> Identifying parts of circles Finding the circumference of circles Finding the area of circles Finding the area of triangles Consolidation 	30 January
31 January	<ul style="list-style-type: none"> Translation Reflection Rotation Enlargement by a positive scale factor Consolidation 	06 February
07 February	<ul style="list-style-type: none"> Writing probabilities as fractions, decimals and percentages Writing probabilities as fractions Probabilities of mutually exclusive events Venn diagrams Consolidation 	09 February
12 th -16 th February	Half Term	
21 February	<ul style="list-style-type: none"> Finding the surface area of cubes and cuboids Finding the surface area of prisms Finding the surface area of cylinders Consolidation 	27 February

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28 February	<ul style="list-style-type: none"> • Term-to-term rules • Substituting into position-to-term rules • Position-to-term rules for arithmetic sequences • Position-to-term rules for sequences of patterns • Consolidation 	05 March
06 March	<ul style="list-style-type: none"> • Converting between ratios, fractions and percentages • Combining ratios • Solving inverse proportion word problems • Consolidation 	12 March
13 March	<ul style="list-style-type: none"> • Interpreting frequency tables and two-way tables • Interpreting frequency tables with grouped data • Drawing stem-and-leaf diagrams • Interpreting stem-and-leaf diagrams • Consolidation 	19 March
20 March	<ul style="list-style-type: none"> • Understanding column vectors • Using a pair of compasses • Constructing triangles • Constructing loci • Consolidation 	25 March
26 March	<ul style="list-style-type: none"> • Adding and subtracting column vectors • Multiplying column vectors by a scalar • Drawing and interpreting scale diagrams • Consolidation 	30 March
28 March	EASTER Holidays	