

## Year 10 Maths Home learning Term 1 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
06 September	<p>Understanding and ordering decimals - U435 GCSE / Number / Place value</p> <p>Using a written method to multiply decimals - U293 GCSE / Number / Operations</p> <p>Using a written method to divide with decimals - U868 GCSE / Number / Operations</p>	13 September
13 September	<p>Using the correct order of operations - U976 GCSE / Number / The order of operations</p> <p>Using a calculator - U926 GCSE / Number / Number skills</p> <p>Simplifying fractions - U646 GCSE / Number / Fractions and mixed numbers</p>	20 September
20 September	<p>Adding and subtracting mixed numbers - U793 GCSE / Number / Fractions and mixed numbers</p> <p>Ordering fractions and mixed numbers - U439 GCSE / Number / Fractions and mixed numbers</p> <p>Multiplying fractions - U475 GCSE / Number / Fractions and mixed numbers</p> <p>Rounding decimals - U298 GCSE / Number / Rounding</p>	27 September
27 September	<p>Nets of 3D shapes - U761 GCSE / Geometry / Nets, plans and elevations</p> <p>Plans and elevations - U743 GCSE / Geometry / Nets, plans and elevations</p> <p>Estimating and measuring - U102 GCSE / Ratio, Proportion and Rates of Change / Measures</p> <p>Converting units of length, mass and capacity - U388 GCSE / Ratio, Proportion and Rates of Change / M</p>	04 October
04 October	<p>Drawing and interpreting tally charts - U653 GCSE / Statistics / Tally charts and pictograms</p> <p>Drawing and interpreting pictograms - U506 GCSE / Statistics / Tally charts and pictograms</p> <p>Drawing line graphs - U590</p>	11 October

## Year 10 Maths Home learning Term 1 FOUNDATION

	GCSE / Statistics / Line graphs Interpreting bar charts - U557 GCSE / Statistics / Bar charts	
11 October	Angles on a line and about a point - U390 GCSE / Geometry / Angles Vertically opposite angles - U730 GCSE / Geometry / Angles Angles in triangles - U628 GCSE / Geometry / Angles Combining angle facts - U655 GCSE / Geometry / Angles	18 October
18 October	Finding the lowest common multiple (LCM) - U751 GCSE / Number / Factors, multiples and primes Finding the highest common factor (HCF) - U529 GCSE / Number / Factors, multiples and primes Finding prime numbers - U236 GCSE / Number / Factors, multiples and primes Finding fractions of amounts with a calculator - U916 GCSE / Number / Fractions and percentages of amounts	01 November
<b>25 October</b>	<b>Half Term</b>	
01 November	Rounding integers - U480 GCSE / Number / Rounding Estimating calculations - U225 GCSE / Number / Rounding Converting between fractions, decimals and percentages - U888 GCSE / Number / Fractions, decimals and percentages Ordering fractions, decimals and percentages - U594 GCSE / Number / Fractions, decimals and percentages	08 November
08 November	Finding equivalent fractions - U704 GCSE / Number / Fractions and mixed numbers Adding and subtracting fractions - U736 GCSE / Number / Fractions and mixed numbers Adding and subtracting mixed numbers - U793 GCSE / Number / Fractions and mixed numbers	15 November
15 November	Line and shape properties - U121 GCSE / Geometry / Line and shape properties Symmetry - U849 GCSE / Geometry / Line and shape properties Properties of 3D shapes - U719 GCSE / Geometry / Line and shape properties	22 November
22 November	Using and interpreting linear real-life graphs - U638 GCSE / Algebra / Real-life graphs Finding equations of linear real-life graphs - U862 GCSE / Algebra / Real-life graphs Reading, converting and calculating with time - U902 GCSE / Ratio, Proportion and Rates of Change / Time	29 November

## Year 10 Maths Home learning Term 1 FOUNDATION

29 November	<p>Using algebraic notation - U613 GCSE / Algebra / Algebraic notation</p> <p>Substituting into expressions - U201 GCSE / Algebra / Substituting into expressions and formulae</p> <p>Substituting into algebraic formulae - U585 GCSE / Algebra / Substituting into expressions and formulae</p>	06 December
06 December	<p>Expanding single brackets - U179 GCSE / Algebra / Brackets</p> <p>Expanding double brackets - U768 GCSE / Algebra / Brackets</p> <p>Factorising into one bracket - U365 GCSE / Algebra / Brackets</p>	13 December
13 December	<p>Writing and simplifying ratios - U687 GCSE / Ratio, Proportion and Rates of Change / Ratio</p> <p>Using equivalent ratios to find unknown amounts - U753 GCSE / Ratio, Proportion and Rates of Change / Ratio</p> <p>Sharing amounts in a given ratio - U577 GCSE / Ratio, Proportion and Rates of Change / Ratio</p>	20 December
20 December	<b>Christmas Holidays</b>	