Mathematics Department Assessment Calendar

Year 7

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Date
Four Operations **Indices** **Averages**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Michaelmas Term 1
Ratio **Factors, Multiples & Primes** **Algebraic Expressions**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Michaelmas Term 2
Shape **Angles** **Fractions** **Representing Data**	**Weekly AI Sparx Maths homework** **Written Assessment** – End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning	Lent Term 1 &2

	Grade bands will be determined as a whole year group – ranked by percentage		Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	
Shape **Sequences** **Probability**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of Year Exam Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through exam and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Trinity Term

Year 8

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Date
Indices **Standard Form** **Percentages**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Michaelmas Term 1
Data Handling **Algebraic Expressions**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Michaelmas Term 2
3D Shapes **Equations and Inequalities** **Linear Graphs**	**Weekly AI Sparx Maths homework** **Written Assessment** – End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning	Lent Term

	Grade bands will be determined as a whole year group – ranked by percentage		Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	
Simultaneous Equations **Quadratic Graphs** **Constructions** **Transformations**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of Year Exam Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through exam and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Trinity Term

Year 9

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Date
Number Properties **Linear equations** **Fractions, decimals and percentages** **Quadratic equations**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Michaelmas Term 1
Perimeter, Area and Volume **Rounding and estimating** **Similar Shapes** **Trigonometry** **Straight Line Graphs**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Michaelmas Term 2
Simultaneous Equations **Indices** **Data presentation** **Handling data cycle**	**Weekly AI Sparx Maths homework** Weekly AI Sparx Maths homework	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning	Lent Term

Probability	Written Assessment – End of topic test. Grade bands will be determined as a whole year group – ranked by percentage		Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	
Maps and plans **Sequences** **Constructions and loci** **Congruent triangles** **Rates of change**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of Year Exam Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through exam and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Trinity Term

Year 10 Accelerator

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Grade Given?	Date
Pythagoras **Similar Triangles** **Trigonometry** **3D Pythagoras and Trigonometry** **Fractions, Decimals, and Percentages** **Converting Recurring Decimals to Fractions** **Ratios and the Unitary Method** **Proportionality** **Upper and Lower Bounds**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 1
Transformations **Averages** **Data handling, Cumulative Frequency** **Box Plots** **Scatter Diagrams** **Speed & Velocity Graphs** **Arc Length & sector areas**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 2
Volume and Surface Area of Prisms **Density and Pressure** **Volume & Surface Area of Cones, Pyramids, & Spheres**	**Weekly AI Sparx Maths homework** **Written Assessment** – End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions.	Y	Lent Term

Scale Factors and Similar Shapes **Quadratic Graphs** **Equations of Straight Lines** **Parallel and Perpendicular Lines** **Angle Rules** **Circle Theorems** **Expanding Triple Brackets**	Grade bands will be determined as a whole year group – ranked by percentage		Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student		
Factorising Quadratics **Simplifying and Manipulating Surds** **Rationalising the Denominator** **Handling Data Cycle** **Histograms and Frequency Density** **Inequalities** **Algebraic Proof** **Algebraic Fractions** **Re-arranging Equations** **Index Notation** **Negative and Fractional Indices**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of Year Exam	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through exam and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Trinity Term

Year 10 Mixed Ability

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Grade Given?	Date
Number including order of operations, rounding and error intervals **Shape including Pythagoras and Trigonometry** **Algebra manipulation** **Solving linear and quadratic equations** **Sketching quadratic graphs**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 1
Fractions, Decimals, and Percentages **Converting Recurring Decimals to Fractions** **Transformations** **Ratio & the unitary method**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 2
Data handling review **Cumulative Frequency graphs** **Box & whisker diagrams** **Speed, distance and time graphs** **Velocity Time and real graphs** **Scatter Diagrams** **Standard Form** **Accuracy**	**Weekly AI Sparx Maths homework** Written Assessment – End of topic test. Grade bands will be determined as a whole year group – ranked by percentage	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Lent Term

Area, Perimeter and Volume **Length of Arc & Arc sector** **Compound Measure review** **Length, area, volume and enlargement** **Direct and inverse proportion**					
Gradient and equation review **Perpendicular Lines** **Graphs & Further graphs** **Angle rules** **Angles in a circle** **Congruent triangles** **Linear and Quadratic Inequalities** **Sequences**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of Year Exam	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through exam and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Trinity Term

Year 11 Accelerator

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Grade Given?	Date
Sequences **Equation of a circle** **Vectors** **Trigonometry** **Functions** **Iteration** **Graph Transformations**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 1
Algebra **Number** **Algebra**	**Weekly AI Sparx Maths homework** **Written Assessment –** Mock exams	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 2
Calculus **Algebra** **Geometry** **Shape** **Geometry**	**Weekly AI Sparx Maths homework** **Written Assessment** – Mock exams on GCSE & Further Maths GCSE for Accelerator Group	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Lent Term

Year 11 Mixed Ability

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Grade Given?	Date
Removing brackets and factorising **Simultaneous equations** **Brackets and quadratic equations** **Algebraic proof** **Sampling and secondary data** **Histograms**	**Weekly AI Sparx Maths homework** **Written Assessment –** End of topic test.	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 1
Algebra changing the subject **Indies review** **Irrational numbers** **Fractions review** **Algebraic fractions**	**Weekly AI Sparx Maths homework** **Written Assessment –** Mock exams	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Michaelmas Term 2
Co-ordinates in 3 dimensions **Equation of a circle** **Vectors** **Trig graphs** **Functions** **Transforming graphs** **Iterative Process** **Rations & irrational numbers**	**Weekly AI Sparx Maths homework** **Written Assessment** – Mock exams on GCSE & Further Maths GCSE for Accelerator Group	AI generated online feedback Written Teacher Feedback	Students receive instant feedback on Sparx and have access to videos on specific questions to help support their learning Students will go through assessment and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed UKMT Maths challenge questions given to extend student	Y	Lent Term

Year 12 A Level

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Grade Given?	Date
1) Quadratic Functions Equations & Inequalities **2) Graphs and transformations** **3) Circles** **4) Algebraic Methods** **5) Trigonometric Ratios** **6) Radians**	**Written Assessment – end of topic test (mini)** **Written Assessment –** End of topic test (multiple topics)	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Michaelmas Term 1
1) Binomial Theorem **2) Trig Identities and equations** **3) Differentiation** **4) Integrations**	**Written Assessment – end of topic test (mini)** **Written Assessment –** End of topic test (multiple topics)	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Michaelmas Term 2
1) Vectors **2) Exponentials and Logarithms** **3) Large Data Set** **4) Data Collections** **5) Measures of Location and spread** **6) Modelling in mechanics** **7) Constant acceleration**	**Written Assessment – end of topic test (mini)** **Written Assessment –** End of topic test (multiple topics)	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Lent Term

1) Representations of Data **2) Probability** **3) Conditional Probability** **4) Statistical Distributions** **5) Forces and Motion** **6) Friction**					
1) Hypothesis Testing **2) Application of Forces** **3) Variable Acceleration** **4) Algebraic Methods**	**Written Assessment – end of topic test (mini)** **Written Assessment End of Year Exams**	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Trinity Term

Year 13 A level

Topic	How its being assessed	Type of feedback to be used	How would work be improved	Grade Given?	Date
Algebraic methods **Functions & Graphs** **Sequences & Series** **Radians** **Trigonometric functions**	**Written Assessment – end of topic test (mini)** **Written Assessment –** End of topic test (multiple topics)	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Michaelmas Term 1
Binomial expansion **Trigonometry and Modelling** **Parametric Equations** **Differentiation** **Numerical Methods**	**Written Assessment – end of topic test (mini)** **Written Assessment –** End of topic test (multiple topics)	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Michaelmas Term 2
Moments **Projectiles** **Application of Forces** **Integration** **Further Kinematics** **Regression, correlation and hypothesis testing** **The Normal Distribution**	**Written Assessment – end of topic test (mini)** **Written Assessment (January)–** Mock Exams	Combination of Verbal / Written / Peer feedback given (at least two will be Teacher Written Feedback) Written Teacher Feedback	Students will go through assessments and correct any incorrect answers covering the common misconceptions. Additional questions based around areas of weaknesses will be completed	Y	Lent Term January March

	Written Assessment (March) Mock Exams	Written Teacher Feedback			