

Alcester Academy Curriculum Planning: Assessment in Maths

Pupils will complete a variety of writing and reading assessments across key stages. Teachers assess using an in-department assessment grid which adopts the 9-1 GCSE gradings. All assessments are completed within the last two weeks of each half term.

Data is recorded by teachers and placed in 'best books', so that pupils can identify their own progress over time. A termly 'working at' grade is reported to SISRA which takes into account the progress of both reading and writing pieces, together with a teacher's professional judgement. Data is used to inform class packs and future setting reviews. Pupils respond to their result of each extended piece and this often includes editing or re-writing, at least a partial response, to ensure they can evidence progress. The end of year exams act as a consolidation of the skills used and learnt over the course of each academic year.

		Year 7	Year 8	Year 9	Year 10	Year 11
Autumn 1	Test	1 55 minute paper	1 55 minute paper	2 30 minute Topic Tests	2 30 minute Topic Tests	Full set of GCSE Papers
	Areas covered	Units 1-2 Analysing and displaying data Number skills	Units 11-12 H – Factors and Powers, Area and Volume M – Factors and Powers, Area and Volume L – Calculations and ratio, Shapes and measures in 3D	H - Calculations, Checking and Rounding. Indices, Roots, Reciprocals, hierarchy of operations. Standard Form Factors, Multiples, Primes. Ratio & Proportion. Algebra – The basics. Setting up, rearranging and solving equations. Pythagoras' Theorem	H - Polygons, Angles & Parallel Lines. Circle Theorems Probability F - The averages Perimeter and area. 3D forms and volume.	

				& Trigonometry. Fractions. F - Integers and place value Decimals Indices, powers and roots Factors, multiples and primes		
	Revision Resource	Drfrostmaths	Drfrostmaths	JustMaths/Eedi/Drfrostmaths	JustMaths/Eedi/Drfrostmaths	JustMaths/Eedi/Drfrostmaths
Autumn 2	Test	1 55 minute paper	1 55 minute paper	Full set of GCSE Papers: November	Full set of GCSE Papers : November	Full set of GCSE Papers
	Areas covered	Units 1-4 Expressions, functions and formulae Decimals and measures	Units 11-14 H – Expressions, Indices and equations, Real life graphs M – Expressions, Indices and equations, Real life graphs L – Expressions and Equations, Statistics	GCSE course H- Setting up, rearranging and solving equations. Pythagoras’ Theorem & Trigonometry. Fractions. F - Algebra: the basics Expanding and factorising single brackets Expressions and substitution into formulae Tables	GCSE course H - Cumulative frequency, Box plots, & Histograms. Collecting data. Indices, Roots, Reciprocals, hierarchy of operations. Recurring decimals to Fractions F – Real Life Graphs Straight-line graphs Transformations I: translations, rotations and reflections Transformations II: enlargements and combinations	

	Revision Resource			JustMaths/Eedi	JustMaths/Eedi	JustMaths/Eedi
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Spring 1	Test	1 55 minute paper	1 55 minute paper	2 30 minute Topic Tests	2 1 hour Topic Tests on units 1 - 6	
	Areas covered	Units 5-6 Fractions and percentages Probability	Units 15-16 H – FDP, Transformations M – Decimals and Ratio, Lines and angles L – Decimals and Measures, Lines and Angles	H - Percentages. Averages and Range. Representing & Interpreting Data. Scatter Graphs. Perimeter, Area , volume, surface area and Circles/arcs/sectors Plans, elevations and bearings. F - Charts and graphs Pie charts Scatter graphs	H - Surds Simultaneous Equations Complex Algebra Manipulation Inequalities F - Ratio Proportion Right-angled triangles: Pythagoras and trigonometry Probability	
	Revision Resource			JustMaths/Eedi		JustMaths
Spring 2	Test	End of year assessment Non Calculator	End of year assessment Non Calculator	Full set of GCSE Papers	Full set of GCSE Papers	Full set of GCSE Papers

		(1hour) and Calculator (1hour)	(1hour) and Calculator (1hour)			
	Areas covered	Units 1-8 Ratio and proportion Lines and angles	Units 11-18 H – Constructions and Loci M – Fractions, Straight line graphs L – Number Properties, Sequences and Graphs	H- Scatter Graphs. Perimeter, Area , volume, surface area and Circles/arcs/sectors Plans, elevations and bearings. F- Fractions Fractions, decimals and percentages Percentages	H - Solving Quadratic Equations Compound Measures and Multiplicative Reasoning Accuracy and Bounds F - Multiplicative reasoning Plans and elevations Constructions, loci and bearings	
	Revision Resource			JustMaths/Eedi	JustMaths/Eedi	JustMaths/Eedi

	Test	No assessment	No assessment		Full set of GCSE Papers	Actual GCSEs
Summer 1	Areas covered	Lines and angles Sequences and graphs	H – Probability, Scale Drawings M – Straight line graphs, FDP L – Sequences and Graphs, FDP	H - Sequences. Graphs, the basics & Real life graphs. Linear Graphs & Coordinate Geometry. F- Equations Inequalities Sequences	H - Transformations Constructions, Loci & Bearings. F - Quadratic equations: expanding and factorising Quadratic equations: graphs	

					Circles, cylinders, cones and spheres Fractions and reciprocals	
	Revision Resource			JustMaths	JustMaths	JustMaths
Summer 2	Test	1 55 minute paper	1 55 minute paper	2 1 hour Topic Tests on units 1 - 6	2 30 minute Topic Tests	
	Areas covered	Units 9-10 Sequences and graphs Transformations	Units 19-20 H – Graphs M – FDP, Scatter graphs and charts L – FDP, Probability	H - Quadratic, Cubic & other graphs. F- Properties of shapes, parallel lines and angle facts. Interior and exterior angles of polygons. Statistics and sampling	H - Reciprocal, exponential graphs and Circle graphs. Gradient & area under graphs. Direct & inverse proportion. F - Indices and standard form Similarity and congruence in 2D Vectors Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations	
	Revision Resource			JustMaths	JustMaths	