

MATHS: Year 11 Higher Course Outline



Half term	TOPIC	CONTENT	Suggestions for enrichment activities <i>(eg: films, websites, books, museums and activity centres)</i>
1	Estimating and Calculating	Use Surds and Pi in exact calculations	Nrich.maths.org/5958
	Simultaneous and quadratic equations	Solve simultaneous equations	Nrich.maths.org/708
	Constructions and loci	Find the loci by reasoning and using diagrams	Nrich.maths.org/2159
OCTOBER HALF TERM HOLIDAY			
2	Fractions, decimals and percentages	Simple and compound interest	Nrich.maths.org/786
	Perimeter, area and volume	Convert between volume measures including cm^3 and m^3	Nrich.maths.org/5673
	Graphical solutions	Find solutions of equations from their graphs including linear, quadratic and cubic.	Nrich.maths.org/7502
CHRISTMAS HOLIDAYS			
3	Ratio and proportion	Reverse percentages	Nrich.maths.org/6870
	Enlargement and similarity	Enlargement using fractional and negative scale factors	Nrich.maths.org/6923
	Independent events	Tree diagrams	Nrich.maths.org/7238
FEBRUARY HALF TERM HOLIDAY			
4	Using Graphs	Quadratic function graphs	Nrich.maths.org/8301
	Pythagoras and Trigonometry	Right angles triangles	Nrich.maths.org/2658
EASTER HOLIDAYS			
5	Revision		