

MATHS: Year 8 Stage 7

Course Outline



Half term	TOPIC	CONTENT	Suggestions for enrichment activities (eg: films, websites, books, museums and activity centres)
1	Numbers and the number system	Solve problems using primes Highest common factor and lowest common multiple problems Powers and Roots	http://nrich.maths.org/8149
	Counting and comparing	Compare and Order Numbers	http://nrich.maths.org/110587
OCTOBER HALF TERM HOLIDAY			
2	Calculating	Understanding place value Written methods of calculation Calculate with decimal using all four operators	http://nrich.maths.org/605
	Visualising and constructing	Interpreting and applying Geometrical conventions and notation	http://nrich.maths.org/5920
	Investigating properties of shapes	Properties of 3D shapes Explore triangles and quadrilaterals	http://nrich.maths.org/2924
CHRISTMAS HOLIDAYS			
3	Algebraic proficiency: tinkering	Understand vocabulary and notation of algebra Manipulate algebraic expressions Explore functions	http://nrich.maths.org/2289
	Exploring fractions, decimals and percentages	Using improper (top-heavy) fractions Explore links between fractions and percentages	http://nrich.maths.org/4345
	Proportional reasoning	Using ratio notation Solve problems that involve dividing into a ratio	http://nrich.maths.org/6870
FEBRUARY HALF TERM HOLIDAY			
4	Pattern sniffing	Explore number sequence	http://nrich.maths.org/7529
	Measuring space	Measuring accurately Convert between measures Solve problems involving measurements	http://nrich.maths.org/5608
	Investigating angles	Using correct angle vocabulary and notation Investigating different types of angles	http://nrich.maths.org/6265
EASTER HOLIDAYS			
5	Calculating fractions, decimals and percentages	Using all four operators with mixed numbers Identifying multipliers for percentage change	http://nrich.maths.org/1118
	Solving equations and inequalities	Solving two and three step equations using different methods	http://nrich.maths.org/6199
	Calculating space	Develop knowledge of area, surface area and volume	http://nrich.maths.org/6398
MAY HALF TERM HOLIDAY			
6	Checking, approximating and estimating	Explore ways of approximating numbers and checking answers	
	Mathematical movement	Transformations, Lines on the coordinate grid	http://nrich.maths.org/5457
	Presentation of data	Construct and interpret graphs	http://nrich.maths.org/10464
	Measuring data	Investigating averages, summarising data	http://nrich.maths.org/9601
	Assessment	Year 8 End of year Test	Mymaths revision packs