

# MATHS: Year 7 Stage 6

## Course Outline



Half term	TOPIC	CONTENT	Suggestions for enrichment activities (eg: films, websites, books, museums and activity centres)
1	Numbers and the number system	Factors and multiples, investigating primes, exploring negative numbers	<a href="http://nrich.maths.org/5448">http://nrich.maths.org/5448</a>
	Calculating	Develop mental and written calculation methods, BIDMAS, solve problems using all operations	<a href="http://nrich.maths.org/6928">http://nrich.maths.org/6928</a>
OCTOBER HALF TERM HOLIDAY			
2	Calculating: Division	Develop written methods for division, using remainders in division, solving problems using all operations	<a href="http://nrich.maths.org/5400">http://nrich.maths.org/5400</a>
	Visualising and constructing	Construct 2D shapes Investigate 3D shapes	<a href="http://nrich.maths.org/8294">http://nrich.maths.org/8294</a>
	Investigating properties of shapes	Properties of 2D shapes Angles in polygons Use vocab of circles	<a href="http://nrich.maths.org/1962">http://nrich.maths.org/1962</a>
	Algebraic proficiency: using formulae	Create and use simple formulae; using both words and algebra	
CHRISTMAS HOLIDAYS			
3	Exploring fractions, decimals and percentages	Equivalence of fractions Equivalence of fractions decimals and percentages	<a href="http://nrich.maths.org/8283">http://nrich.maths.org/8283</a>
	Proportional reasoning	Solve problems using scaling Explore enlargements Solve problems involving groups and sharing	<a href="http://nrich.maths.org/1026">http://nrich.maths.org/1026</a>
	Pattern sniffing	Explore number sequences	<a href="http://nrich.maths.org/6863">http://nrich.maths.org/6863</a>
	Measuring space	Solve problems involving measurement Use different units of measure	<a href="http://nrich.maths.org/7500">http://nrich.maths.org/7500</a>
FEBRUARY HALF TERM HOLIDAY			
4	Investigating angles	Develop knowledge of angles Apply facts to deduce unknown angles	<a href="http://nrich.maths.org/2844">http://nrich.maths.org/2844</a>
	Calculating fractions, decimals and percentages	Use fractions, decimals and percentages to solve problems	<a href="http://nrich.maths.org/5467">http://nrich.maths.org/5467</a>
EASTER HOLIDAYS			
5	Solving equations and inequalities	Understand and use algebra Solve missing number problems	<a href="http://nrich.maths.org/1117">http://nrich.maths.org/1117</a>
	Calculating space	Area and volume Solve problems involving area and volume	<a href="http://nrich.maths.org/89">http://nrich.maths.org/89</a>
	Checking, approximating and estimating	Approximating numbers Exploring ways of checking numbers	<a href="http://nrich.maths.org/5633">http://nrich.maths.org/5633</a>
MAY HALF TERM HOLIDAY			
6	Mathematical movement	Use Cartesian coordinates Transformations	<a href="http://nrich.maths.org/6288">http://nrich.maths.org/6288</a>
	Presentation of data	Construct and interpret Pie charts	<a href="http://nrich.maths.org/4937">http://nrich.maths.org/4937</a>
	Measuring data	Understand and use the mean	<a href="http://nrich.maths.org/7553">http://nrich.maths.org/7553</a>
	Assessments	Year 7 end of year test	My maths revision booster packs