

# MATHEMATICS

## Year 7

### Topics studied:

<u>Half Term 1:</u> Number 1	Place value, decimals, negative numbers, rounding, estimation, simple conversions, standard form, squares, cubes & roots, sequences of numbers, BIDMAS, multiples, factors, HCF, LCM, prime factor decomposition & index laws
<u>Half Term 2:</u> Algebra 1	Sequences, Nth term, coordinates, linear/quadratic graphs & real life graphs
<u>Half Term 3:</u> Geometry 1	Properties of shapes, angles, symmetry, nets, isometric drawing, plans and elevations
<u>Half Term 4:</u> Statistics	Probability, collecting data, sampling, averages & presenting data (graphs e.g. scatter graph)
<u>Half Term 5:</u> Algebra 2	Definitions (term, expression, equation, formulae), collecting like terms, substitution, writing expressions, expanding, factorising, changing the subject of a formula, solving equations & simultaneous equations
<u>Half Term 6:</u>	Revision for end of year exam & investigations to support answering functional skill style questions

### Keywords that students should know, and be able to spell, by the end of Year 7:

### Subject specific websites to support revision and independent learning:

Mymaths (lessons, homework and games): <http://www.mymaths.co.uk>  
 BBC Bitesize (revision and tests): <http://www.bbc.co.uk/education/subjects/zqhs34j>  
 Subtangent (revision, games and investigations):  
<http://www.subtangent.com/maths/index.php>  
 Nrich (games and puzzles): <http://www.nrich.maths.org.uk/public/index.php>  
 Counton (lots of games): <http://www.counton.org/games/>  
 Sums (games): <http://www.sums.co.uk/playground.htm>  
 Mathsapps (find apple maths apps): <http://www.mathsapps.com/>  
 Brainbashers (games and puzzles): <https://www.brainbashers.com/puzzles.asp>  
 Funbrain (puzzles & games): <http://www.funbrain.com/>  
 Hellam (puzzles & games): <http://www.mathematics.hellam.net/>

### Recommended reading:

Key Stage Three Mathematics Higher Level: The Workbook (includes answers) by CGP  
 Key Stage Three Mathematics Foundation Level: The Workbook (includes answers) by CGP  
 Key Stage Three Mathematics Higher Level: The Study Guide by CGP  
 Key Stage Three Mathematics Foundation Level: The Study Guide by CGP

MathsWatch Disc
<b>Additional Information:</b>  We have a chess club on Thursday lunchtimes There are revision resources on the school website

