

Topics studied:

Autumn 1

Algebra (simplifying and substitution)
Expanding and factorising
Solving equations
Inequalities

Autumn 2

Linear graphs
Non-linear graphs
Direct and inverse proportion
Compound measures

Spring 1

Place value, estimating and rounding
Factors, multiples and primes
Index laws
Standard form
Surds

Spring 2

Angles in polygons
Angles in parallel lines
Pythagoras
Trigonometry
Similarity and congruence

Summer 1

Fractions
Percentages
Decimals
Ratio

Summer 2

Presenting data (pie charts, scatter graphs, stem and leaf diagrams, bar charts, pictograms)

Key words that students must know, and be able to spell, by the end of the course:

Convert, linear, area, volume, metric, imperial, index, power, standard form, round, significant, upper bound, lower bound, error interval, proportion, solve, inverse, constant

Velocity, density, mass, linear, quadratic, cubic, reciprocal, gradient, intercept

Interior, exterior, polygon, regular, irregular, similar, scale factor, congruent, proof, corresponding, hypotenuse

Adjacent, opposite, intersection, union, set, probability, independent, mutually exclusive

Quadratic, coefficient, factorise, expand, substitute, difference, frequency, correlation

To help your child this year:

The following workbooks and revision guides are available for you to purchase on Parentpay:

- 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

You can also access additional Maths resources via the school website

Subject specific websites to support revision and independent learning:

Mymaths (lessons, homework and games):

www.mymaths.co.uk BBC Bitesize (revision and tests):

www.bbc.co.uk/education/subjects/zqhs34j Subtangent (revision, games and investigations): www.subtangent.com/maths/index.php Nrich (games and puzzles):

www.nrich.maths.org.uk/public/index.php Counton (lots of games):

www.counton.org/games/ Sums (games):

www.sums.co.uk/playground.htm Mathsapps (find apple maths apps):

www.mathsapps.com/ Brainbashers (games and puzzles):

www.brainbashers.com/puzzles.asp Funbrain (puzzles & games):

www.funbrain.com/ Hellam (puzzles & games):

www.mathematics.hellam.net/

www.mathsgenie.co.uk

www.mathsbot.com