KS3 CURRICULUM: MATHEMATICS (YEAR 8)

Overview

Mathematics is taught in a five year programme of study. Under the each of the six main strands the following topics are included:

- Number and ratio - Fractions, percentages, ratio and proportion, indices and surds, standard form, decimals, proportion and rates of change .
- Algebra - Equations and identities, formulae, sequences, graphs, quadratics, inequalities.
- Geometry and measures - Area and volume, transformations, circles, trigonometry, Pythagoras, vectors, constructions.
- Statistics and probability– Collecting and displaying data, the probability of events and averages.

Term	Focus	Knowledge & Skills	Assessment
Autumn 1	Number	Module 19 - Four Operations Module 20 - Number Properties Module 21 - Fractions, Decimals & Percentages	End of half-term assessment on all topics covered since the start of year 8.
Autumn 2	Geometry	Module 22 - Properties of Angles Module 23 - Constructions Module 24 – Perimeter & Area	Assessment week (w/b 11th Nov 2019) – this will cover all of the topics since the start of year 8.
Spring 1	Algebra	Module 25 - Algebraic Manipulation (including simplifying, expanding, factorising and substitution) Module 26 - Solving Equations Module 27 – Sequences & Graphs	End of half-term assessment on all topics covered since the start of year 8.
Spring 2	Ratio	Module 28 - Ratio & Proportion Module 29 - Speed	End of half-term assessment on all topics covered since the start of year 8.
Summer 1	Statistics	Module 30 - Representing Data Module 31 - Averages & Range Module 32 - Probability	End of half-term assessment on all topics covered since the start of year 8.
Summer 2	Geometry	Module 33 - Volume & Surface Area Module 34 - Transformations	End of Year exams (w/b 22nd Jun 2020 for 2 weeks) - this will cover all of the topics since the start of year 8.

Further Information

The exam board used for Mathematics is **Edexcel** - http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics2015.html
Maths Watch - https://vle.mathswatch.co.uk/vle/ (All students are given individual logins and passwords to support with classwork, homework and revision)
A weekly maths homework club (for all students) is held on Wednesdays from 3.10pm – 4.00pm in room A27.
Equipment - All students must attend lessons with pens (black and green), pencil, long ruler, rubber, protractor, pair of compasses, scientific calculator and exercise book.