Mathematics Faculty Curriculum Year Plans

2018 - 2019

YEAR 7 Mathematics

Term	Content	Assessment Type	Homework Opportunities
Autumn Term	- Algebraic expressions - Statistics 1 Charts - Powers - Perimeter, area, Volume - Equations - Number and Arithmetic - Fractions and percentages	- Exit Tickets - End of term Exam	- Learning facts - Mathswatch clips - Problem solving - Revision sheet - Consolidation exercises
Spring Term	- Angles and Shape - Multiples, Factors, Primes - Formulas - Ratio and Proportion - Probability - Units and Scales	- Exit Tickets - End of term Exam	- Learning facts - Mathswatch clips - Problem solving - Revision sheet - Consolidation exercises
Summer Term	- Constructions - Sequences - Transformations - Approximations - Graphs and Equations - Statistics 2 Correlation	- Exit Tickets - End of term Exam	- Learning facts - Mathswatch clips - Problem solving - Revision sheet - Consolidation exercises

Wider Reading and Independent Learning: Work through Mathswatch clips for each topic studied in class.

YEAR 8 Mathematics

Term	Content	Assessment Type	Homework Opportunities
Autumn Term	• Algebraic Expressions • Equations and Inequalities • Sequences • Number and Arithmetic • Angles and Shape • Ratio, Proportion and Rates of Change • Statistics 1 Charts • Approximations	• Exit Tickets • End of Term Exams	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises
Spring Term	• Constructions • Fractions and Percentages • Probability • Formulas • Powers • Perimeter, Area and Volume	• Exit Tickets • End of Term Exams	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises
Summer Term	• Multiples, Factors and Primes • Geometric Relationships • Graphs and Equations • Units and Scales • Transformations • Statistics	• Exit Tickets • End of Term Exams	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises

Wider Reading and Independent Learning: Work through Mathswatch clips for each topic studied in class.

YEAR 9 Mathematics

Term	Content HIGHER	Content FOUNDATION	Assessment Type	Homework Opportunities
Autumn Term	• Area and Perimeter • Multiples, factors, primes • Equations • Transformations (1) • Percentages • Scatter Graphs • Ratio and proportion • Fractions • Angles	• Arithmetic/negative numbers • Area and Perimeter • Equations • Averages • Probability • Transformations (1) • Decimals/rounding • Multiples, factors, primes	• Exit Tickets • End of term Exam	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises
Spring Term	• Pythagoras Theorem • Trigonometry • Simultaneous Equations • Standard Form • Probability • Inequalities • Sequences • Averages • Cumulative Frequency	• Ratio • Fractions (1) • Circles • Coordinates/Straight lines • Angles • Percentages • Scale drawings/bearings • Enlargemnets	• Exit Tickets • End of term Exam	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises
Summer Term	• Venn diagrams • Straight Line graphs • 3D shapes • Expressions • Iterative Methods • Circle Theorems	• Scatter graphs • Pie charts • Venn diagrams • 3D shapes • Constructions • Sequences	• Exit Tickets • End of year Exam	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises

Wider Reading and Independent Learning: Work through Mathswatch clips for each topic studied in class.

YEAR 10 Mathematics

Term	Content HIGHER	Content FOUNDATION	Assessment Type	Homework Opportunities
Autumn Term	• Sequences • Surds • Sine & Cosine Rule • Indices] • Constructions • Enlargements • Tree diagrams • Recurring Decimals	• Algebraic expressions • Pythagoras Theorem • Trigonometry • Standard form • Equation of straight lines • Quadratic and other graphs	• Exit Tickets • End of term Exam	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises
Spring Term	• Histograms • Similarity/Congruence • Direct & Inverse Proportion • Vectors • Graphs • Upper & Lower bounds	• Simultaneous equations • Tree diagrams • Harder percentages • Similarity/congruence • Vectors • Indices	• Exit Tickets • End of term Exam	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises
Summer Term	• Compound measures • Further expressions • Algebraic fractions • Functions • Transformations (2)	• Arcs and sectors • Compound measures • Transformations (2) • Fractions (2) • Angles (2)	• Exit Tickets • End of year practice GCSE exam	• Learning facts • Mathswatch clips • Problem solving • Revision sheet • Consolidation exercises

Wider Reading and Independent Learning: Work through Mathswatch clips for each topic studied in class.

YEAR 11 Mathematics

In year 11 students the majority of lessons will be to recap and revise topics taught in year 9 and 10, in preparation for their PPE exams in December. In addition to this time will be spent working on practice exam papers. Following the PPE exams, question level analysis will take place to highlight which areas students need to focus on/revise in preparation for the GCSE Summer Exams.