

Hawkley Hall High School

KS4 Mathematics (Foundation) Learning Journey



KS4 Students will complete an assessment at the end of each unit and a mock exam at the end of Year 10

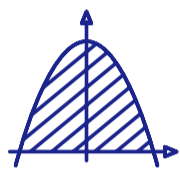


Exams



More Algebra

Similarity and Congruence and Vectors



Formulae
 $y=mx+c$
Write equations
Direct and inverse proportion graphs

2D Vectors
Ratio in Shape
Congruence
Similarity

Quadratic Equations and Graphs

Solve quadratics
Binomial Expansions
Roots and turning points
Reciprocal Graphs



Multiplicative Reasoning

Probability



Unitary Methods
Proportion
Compound Measures
Ratio

Frequency Trees
Venn Diagrams
Dependant events
Independent events

Year 11

Graphs

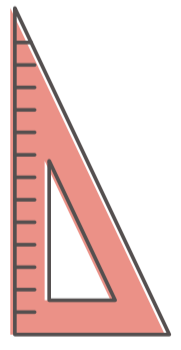
Area and Volume

Transformations

Coordinates
Linear Graphs
Real life graphs
Non-linear graphs

Area and perimeter
3D solids
Volume
Surface Area

Rotation
Reflection
Translation
Enlargement
Constructions



Angles and Trigonometry

Fractions, Decimals, percentages



Polygons
Pythagoras
Trigonometry
Angles in shape

Equivalent FDP
Fraction calculations
Decimal calculations
Percentage calculations
Ratio

Year 10 GCSE

Number

Algebraic Manipulation

Data

BIDMAS
Negative numbers
Decimals
Types of number
Indices
HCF & LCM

Expressions
Formulae
Sequences
Equations
Inequalities

Charts and Tables
Averages and range
Probability

