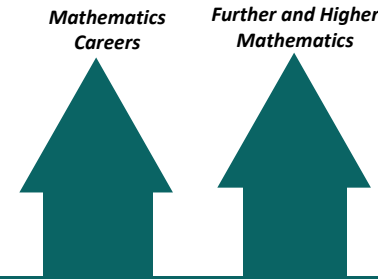




All pupils can reason and think mathematically

All pupils are numerically fluent

All pupils have developed a strong work ethic and can persevere through more difficult problems



GCSE Examinations



Revision based on QLA
Question level analysis

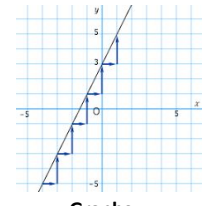
Using Number
Non-calculator methods
Types of number and sequences
Indices and roots



Delving into data
Collecting, representing and interpreting data



Year 11



Graphs
Gradients and lines
Non-linear graphs
Using graphs

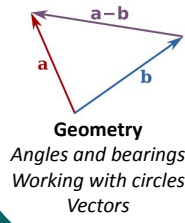


Reasoning
Multiplicative
Geometric
Algebraic

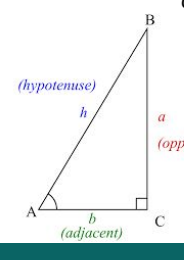


Revision and communication
Transforming and constructing
Listing & Describing
Show that...

Question Level Analysis will be started following the Mock Exams Series and students will have at least one lesson a week based on gaps in knowledge

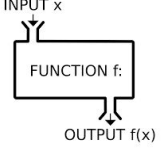


Geometry
Angles and bearings
Working with circles
Vectors



Similarity
Congruence, similarity and enlargement
Trigonometry

Algebra
Expanding & factorizing
Changing the subject
Functions

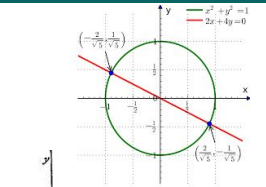


Representations
Solving problem using graphs, tables and algebra

| Fruit Collected | |
|-----------------|--|
| Banana | |
| Apple | |
| Cherry | |

Year 10

Proportions and Proportional Change
Ratios and functions
Percentage and Interest
Probability



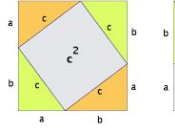
Developing Algebra
Representing solutions of equations and inequalities
Simultaneous equations

Reasoning with Algebra
Forming and solving equations
Straight line graphs
Testing conjectures

Reasoning with Proportion
Enlargement and similarity
Solving ratio and proportion problems
Rates



Reasoning with Geometry
Deduction
Rotation and translation
Pythagoras' Theorem



Year 9



Y7&8 pupils enter UKMT Challenge



Constructing in 2 and 3 Dimensions
Three dimensional shapes
Constructions and congruency



Reasoning with Number
Numbers
Using percentages
Maths & money



Developing Geometry
Angles in parallel lines and polygons
Area of trapezia and circles
Line symmetry and reflection

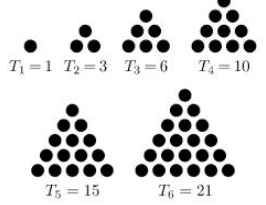
Algebraic Techniques
Sequences
Indices

$$S = \frac{\pi A k c^3}{2 h G}$$

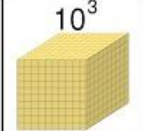
Proportional Reasoning
Ratio and scale
Multiplicative change
Multiplying and dividing fractions



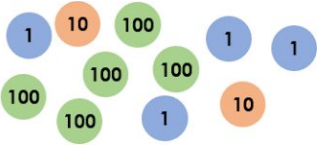
Reasoning with Data
The data handling cycle
Measures of location



Place Value and Proportion
Place value and ordering integers and decimals
Fraction, decimal and percentage equivalence

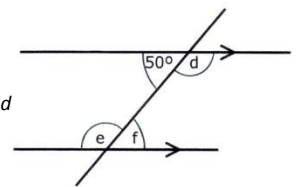


Developing Number
Fractions and percentages
Standard index form
Number sense



Representations
Working in the cartesian plane
Representing data
Tables & probability

Lines and Angles
Constructing, measuring and using geometric notation
Developing geometric reasoning

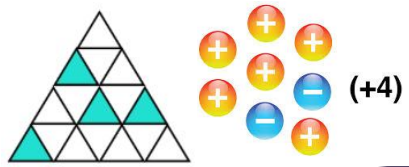


Year 7

Algebraic Thinking
Sequences
Algebraic notation
Equality and equivalence

Applications of Number
Solving problems with addition and subtraction
Solving problem with multiplication and division
Fractions & percentages of amounts

Directed Number & Fractional Thinking
Four operations with directed number
Addition and subtractions of fractions



Reasoning with Number
Developing number sense
Sets and probability
Prime numbers and proof

| | | | | | | |
|----|----|----|----|----|----|----|
| 2 | 3 | 5 | 7 | 11 | 13 | 17 |
| 19 | 23 | 29 | 31 | 37 | 41 | |
| 43 | 47 | 53 | 59 | 61 | 67 | |
| 71 | 73 | 79 | 83 | 89 | 97 | |

Primary School

Year 6 Transition

Feedback from Primary Teachers



Year 5 and 6 Booster Sessions

Open Evening Competitions



KS2 National Curriculum

