# Maths KS3 Learning Journey

**HARROW HIGH SCHOOL**

**Revision and Consolidation**
Algebraic techniques; proportional reasoning; reasoning with number

**Reasoning with Proportion**
Enlargement and similarity; solving ratio and proportion problems; rates
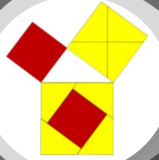**Representations**
Rates; probability

**Reasoning with Number**
Numbers; using percentages; maths and money
**Reasoning with Geometry**
Deduction; rotation and translation; Pythagoras' theorem

**Algebraic Techniques**
Indices; standard form
**Reasoning with Algebra**
Straight line graphs; forming and solving equations
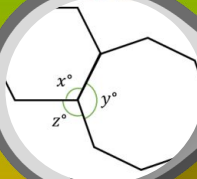**Constructing in 2&3 Dimensions**
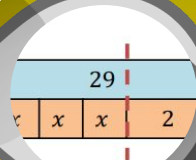Three dimensional shapes; constructions and congruency

**Y9**

**Developing Geometry**
Angles in parallel lines and polygons; area of trapezia and circles; symmetry and reflection
**Reasoning with Data**
The data handling cycle; measures of location

**Algebraic Techniques**
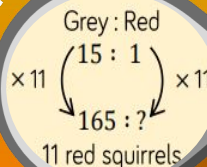Brackets, equations and inequalities; sequences, indices
**Developing Number**
Fractions and percentages; standard form; number sense

**Proportional Reasoning**
Ratio and scale; multiplicative change
**Representations**
The Cartesian plane; representing data; tables and probability

**Y8**

**Lines and Angles**
Constructing, measuring and using geometric notation; developing geometric reasoning
**Reasoning with Number**
Number sense; sets and probability; prime numbers and proof

**Applications of Number**
Addition and subtraction; multiplication and division; fractions and percentages of amounts
**Directed Number**
Operations and equations with directed number; addition and subtraction of fractions

**Algebraic Thinking**
Sequences; algebraic notation; equality and equivalence
**Place Value and Proportion**
Place value; ordering integers and decimals; FDP equivalence

**Y7**