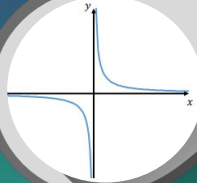


# Maths KS3 Learning Journey



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



**Reasoning with Geometry**  
Deduction; rotation and  
translation; Pythagoras'  
theorem



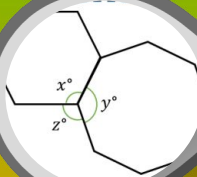
**Constructing in 2&3  
Dimensions**  
Three dimensional shapes;  
congruency



**Reasoning with Number**  
Numbers; using percentages;  
maths and money  
**Reasoning with Algebra**  
Straight line graphs; forming  
and solving equations

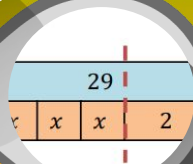


**Developing Number**  
Fractions and percentages;  
number sense  
**Developing Geometry**  
Angles in parallel lines and  
polygons; area of trapezia  
and circles; symmetry and  
reflection



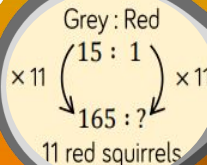
**Y9**

**Reasoning with Data**  
The data handling cycle;  
measures of location



**Representations**  
The Cartesian plane;  
representing data; tables  
and probability  
**Algebraic Techniques**  
Brackets, equations and  
inequalities; sequences,

**Reasoning with Number**  
Prime numbers and proof  
**Algebraic Techniques**  
Indices; standard form  
**Proportional Reasoning**  
Ratio and scale; multiplicative  
change



**Y8**

**Fractional Thinking**  
Fractions and percentages of  
amounts, addition and  
subtraction of fractions  
**Lines and Angles**  
Constructing, measuring and  
using geometric notation;  
developing geometric  
reasoning



**Applications of Number**  
Addition and subtraction;  
multiplication and division;  
**Directed Number**  
Operations and equations  
with directed number  
**Fractional Thinking**  
Fractions, decimals and  
percentages



**Reasoning with Number**  
Sets and probability



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

**Y7**