



KING JAMES'S SCHOOL
KNARESBOROUGH

The King James's School

Learning Journey

Mathematics – Key Stage 3

Probability, quadratic graphs, representing inequalities

Similarity, direct and inverse proportion, compound units,

Angle rules, transformations of shapes, Pythagoras' Theorem

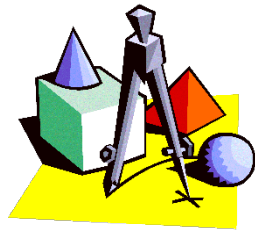


Representations

Reasoning with proportion

Reasoning With geometry

Linear graphs & gradients, sequence rules, equations and conjectures



Working with 2D and 3D shapes, accurate constructions using Mathematical equipment

Reasoning with algebra

Constructing in 2D and 3D

Reasoning with number

%s, standard form & financial Mathematics

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Angles in parallel lines and polygons, trapezia and circles, symmetry

Percentage change & standard form

Reasoning with data

Developing geometry

Developing number

Collecting, representing and analysing data

Using ratio and scale, multiply & divide fractions

Linear graphs, scatter graphs and using sample spaces and Venn diagrams

Proportional Reasoning

Representations

Algebraic Techniques

Expand, factorise and solve, use inequalities



Estimation, introduction to probability, powers, roots and primes

Using geometrical notation and basic angle rules.

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Reasoning With Number

Lines and Angles

Formal written & mental calculation methods
Area & perimeter, fractions & percentages of amounts

Working with negative numbers.

Addition and Subtraction of fractions.

Working with number

Directed Number

Fractional Thinking



Place Value and proportion

Algebraic Thinking

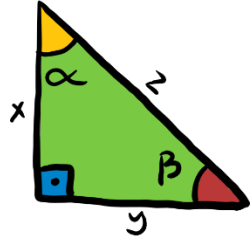
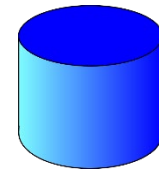
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Using the number line and interchanging between fractions, decimals and percentages

Types of sequences and an introduction to algebra



The King James's School Maths Learning Journey GCSE: Foundation Tier



Graphs

Simultaneous equations Area and volume Trigonometry Standard form Inequalities

Sampling and scatters

Advanced percentages



Constructions

Maps and bearings



Key Skills Statistics

Percentages

Congruence and similarity

Proportion

Transformations

Sequences

Straight line graphs

Units

Circles



Quadratics

Probability

Formulae and Equations

Ratio and Proportion

Pythagoras

$$a = \frac{v - u}{t}$$

Angles

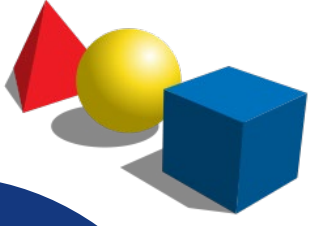
Functions and Key Skills Algebra

Key Skills Number





The King James's School Maths Learning Journey GCSE: Higher Tier



Functions, iteration
And proof

Kinematics

Proportionality

Advanced
3D shapes

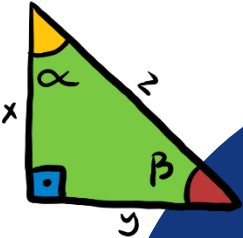


Sampling
and
surveys

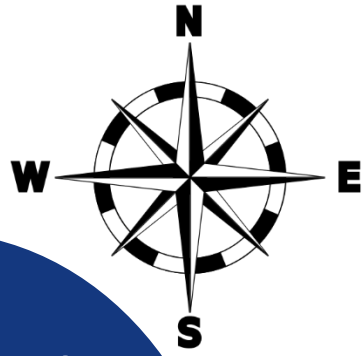
Indices &
Standard Form

Bounds

Other
Graphs



Advanced
Trig



Vectors

Advanced
Simultaneous
equations

Graphs

Further
quadratics



Simultaneous
equations

Percentages

Congruence
and similarity



Statistics



Transformations

Sequences

Linear
graphs



Area
&
perimeter



Quadratics

Probability

Circle
theorems

Surds



Pythagoras
&
Trigonometry

Angles

Key Skills
Algebra

Key Skills
Number & ratio

