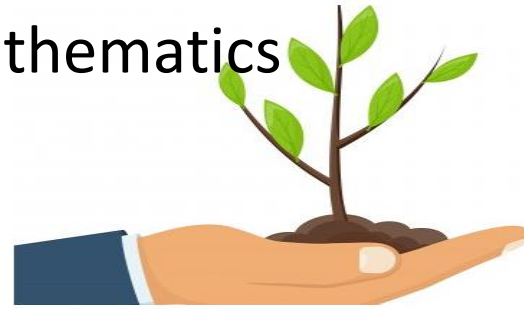
Curriculum plan: Mathematics



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INTENT:

"God used beautiful mathematics in creating the world"

Paul Dirac

Maths is a universal language that explains the world around us. The study of mathematics in The King's enables students to make sense of everyday situations, forge links between topics and establish connections to real life context.

As a fundamental discipline in our lives, maths fosters curiosity, equipping students with various strategies to tackle problems; it empowers students with resilience to take risks, get it wrong, form a new strategy and start again, with determination and drive to reach the final answer.

Maths is logical thinking, reasoning, intuition, analysis, construction, generalization and beauty.

The Kings CHURCH OF ENGLAND SCHOOL KIDSGROVE

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Half term points

AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
All: H/ HF: F: **Learning includes:** N2.1 Whole numbers N1.1 Adding and subtracting whole numbers N7.1 Multiples N3.1 Rounding to the nearest 10 or 100 GM1.1 Length GM1.2 Mass GM1.3 Time GM1.4 Volume GM5.1 Position and cartesian coordinates N2.2 Writing and ordering decimals N1.2 Multiplying whole numbers	H: H/ FH: FH: F: **Learning includes:** SP2.1 Using tables and charts GM2.1 Common shapes GM4.1 Angles in degrees GM2.2 Line symmetry SP1.3 Using frequency tables SP2.4 Pie charts GM5.4 Reflection N3.3 Rounding decimals to the nearest integer SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range SP2.2 Stem and leaf diagrams	H H/ HF: F: **Learning includes:** N2.4 Negative numbers SP1.3 Using frequency tables SP2.3 Vertical line charts N2.4 Negative numbers A1.1 Making and using word formulae A1.2 Using letters N1.5 Adding and subtracting negative numbers N1.6 Multiplying and dividing negative numbers SP3.1 Collecting data SP1.2 Using mean, median, mode and range	**Learning includes:** N4.1 Understanding fractions A2.1 What is a sequence? N4.2 Finding equivalent fractions A2.2 Generating sequences N4.3 Multiplying fractions GM2.3 Angle facts	**Learning includes:** N5.1 Understanding and using percentages N5.2 Calculating percentages of quantities N5.3 Converting between fractions, decimals and percentages SP4.2 Single event probability GM4.2 Constructions with a ruler and protractor SP4.1 Introduction to probability GM2.5 Angles in triangles and quadrilaterals	**Learning includes:** N1.4 Dividing whole numbers GM3.1 Understanding area N7.3 Divisibility tests N2.5 Using the number system effectively N3.4 Rounding decimals N3.5 Significance GM3.2 Finding area and perimeter A3.1 Real life graphs

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	N2.3 Multiplying and dividing by powers of 10 N7.2 Factors, primes and powers N3.2 Rounding larger numbers GM1.5 Interpreting Scales GM1.6 The metric system GM5.2 Cartesian coordinates in four quadrants GM5.3 Translation	GM2.4 Rotational symmetry GM5.5 Rotation GM6.1 Properties of 3-D shapes N1.3 Adding and subtracting decimals	A1.3 Combining variables A1.4 Working with formulae			

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Half term points

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 1
8	H: F: H/F: **Learning includes:** N1.2 Multiplying whole numbers N2.2 Writing and ordering decimals N3.2 Rounding larger numbers A2.1 What is a sequence? review GM2.3 Angle facts N2.3 Multiplying and dividing by powers of 10 N7.2 Factors, primes, and powers N1.5 Adding and subtracting negative numbers N1.6 Multiplying and dividing negative numbers A2.2 Generating sequences	H: F: H/F: **Learning includes:** A1.1 Making and using word formulae A1.2 Using letters SP2.3 Vertical line charts SP2.4 Pie charts N4.2 Equivalent fractions N1.4 Dividing whole GM6.2 Understanding nets GM6.1 Properties of 3-D shapes A1.3 Combining variables SP2.2 Stem & leaf diagrams SP1.1/2 Using mean, median, mode and range SP3.1 Collecting data N4.3 Multiplying fractions N7.3 Divisibility tests GM4.2 Constructions with a ruler and protractor GM2.4 Rotational symmetry	H H/ HF: F: **Learning includes:** A1.2 Using letters N1.3 Adding and subtracting decimals N3.3 Rounding decimals to the nearest integer GM1.5 Interpreting scales A1.4 Working with formulae A3.1 Real life graphs N1.7 Order of operations BIDMAS GM1.8 Bearings A3.2 Plotting graphs of linear functions N1.8 Multiplying decimals N1.9 Dividing decimals GM3.3 Circumference	**Learning includes:** A1.3 Combining variables N4.2 Equivalent fractions GM1.6 The metric system GM5.2 Cartesian coordinates in four quadrants GM5.3 Translation A1.5 Setting up and solving simple equations A1.6 Using brackets SP4.1 Introduction to Probability SP4.2 Single event probability N2.5 Using the number system effectively GM5.5 Rotation A1.7 Working with more complex equations	**Learning includes** N7.2 Factors, primes and powers N1.5 Adding and subtracting negative numbers A1.4 Working with formulae A2.2 Generating sequences GM3.1 Understanding area GM6.1 Properties of 3-D shapes A2.3 Linear sequences GM3.2 Finding area and perimeter GM6.2 Understanding nets A2.4 Special sequences	**Learning includes:** A1.5 Setting up and solving simple equations SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range SP2.2 Stem and leaf diagrams N5.1 Understanding and using percentages N5.2 Calculating percentages of quantities GM2.4 Rotational symmetry GM6.2 Understanding nets SP3.1 Collecting data SP1.3 Using frequency tables N3.4 Rounding decimals N5.3 Converting between fractions decimals and percentages

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	GM2.5 Angles in triangles and quadrilaterals N1.7 Order of operations BIDMAS A2.3 Linear sequences GM2.6 Types of quadrilateral GM2.7 Angles and parallel lines	GM2.6 Types of quadrilateral GM6.1 Properties of 3-D shapes A1.5 Setting up and solving simple equations A1.6 Using brackets SP2.6 Scatter diagrams N4.4 Adding and subtracting fractions N4.5 Working with mixed numbers N4.6 Dividing fractions GM4.3 Constructions with a pair of compasses GM6.2 Understanding nets		A1.8 Solving equations with brackets SP4.3 Combined events N6.2 Sharing in a given ratio N6.3 Working with proportional quantities GM1.7 Metric-imperial conversions GM1.9 Scale drawing GM5.6 Enlargement N6.1 Understanding ratio notation	GM6.3 Volume and surface area of cuboids N7.4 Index notation	GM6.3 Volume and surface area of cuboids A4.1 Trial and improvement S3.2 Designing a questionnaire S1.4 Using grouped frequency tables S2.5 Displaying grouped data N5.4 Applying percentage increases and decreases to amounts GM6.4 2-D representations of 3-D shapes

Working towards (Key)
Higher Tier Grades 9 - 4
Both Higher Tier and Higher/Foundation Students will take either the Higher Tier Or the Foundation Tier
Higher/Foundation Tier
Both Higher/Foundation and Foundation Tier Students will take the Foundation Tier or Higher Tier
Foundation Tier Grades 5 - 1
All Tiers Grades 9 – 1