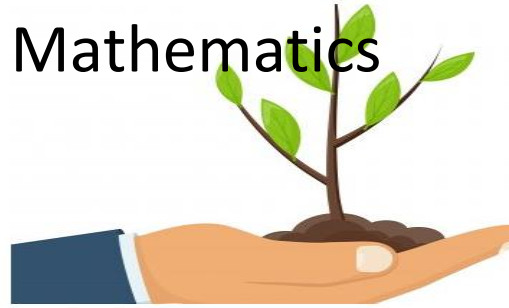


INTENT:



“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.



Please click on the icons to access our online portal where you can learn more about each topic

Half term points

AUTUMN 1

All:



H/ HF:



F:

AUTUMN 2

H:



H/ FH:



FH:



F:



SPRING 1

H



H/ HF:



F:



SPRING 2

H



H/ HF:



F:



SUMMER 1

H:



F:



SUMMER 2

H:



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

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

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:

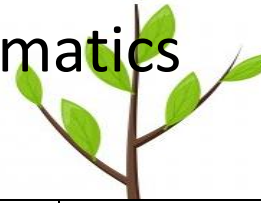
- N4.1 Understanding fractions
- A2.1 What is a sequence?
- N4.2 Finding equivalent fractions
- A2.2 Generating sequences
- N4.3 Multiplying fractions
- GM2.3 Angle facts

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

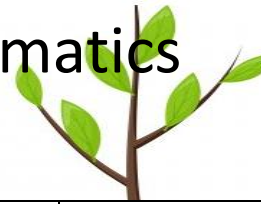


	<p>N2.3 Multiplying and dividing by powers of 10</p> <p>⦿ N7.2 Factors, primes and powers</p> <p>N3.2 Rounding larger numbers</p> <p>⦿ GM1.5 Interpreting Scales</p> <p>⦿ GM1.6 The metric system</p> <p>⦿ GM5.2 Cartesian coordinates in four quadrants</p> <p>⦿ GM5.3 Translation</p>	<p>⦿ GM2.4 Rotational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

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
8	<p>H: </p> <p>F: </p> <p>H/F: </p>	<p>H: </p> <p>F: </p> <p>H/F: </p>	<p>H: </p> <p>H/ HF: </p> <p>F: </p>	<p>H: </p> <p>H/ HF: </p> <p>F: </p>	<p>H: </p> <p>F: </p>	<p>H: </p> <p>F: </p>
	<p>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 GM2.5 Angles in triangles and quadrilaterals</p>	<p>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  GM2.6 Types of quadrilateral</p>	<p>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</p>	<p>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</p>	<p>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</p>	<p>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</p>



























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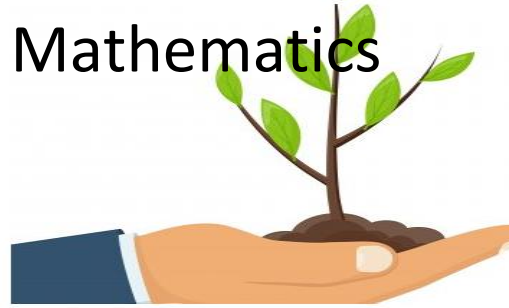
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Key found at the bottom of this document

Half term points

9	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	 H:  F:  H/F: 	 H:  F:  H/F: 	 H:  F:  H/F: 	 H:  F:  H/F: 	 H:  F:  H/F: 	 H:  F:  H/F: 
	Key learning to include: A3.1 Real-life graphs SP1.3 Using frequency tables GM3.2 Finding area and perimeter N2.5 Using the number system effectively	Key learning to include: A1.5 Setting up, solving simple equations A1.6 Using brackets N1.7 BIDMAS GM3.3 Circumference N4.3 Multiplying fraction's N5.3 Converting between fractions, decimals and percentages	Key learning to include: A1.7 Working with more complex equations GM 2.5 Angles in triangles and quadrilaterals GM 2.6 Types of quadrilateral SP1.3 Using frequency tables SP2.2 Stem and leaf diagrams	Key learning to include: N1.6 Multiplying and dividing negative numbers A2.3 Linear sequences A3.2 Plotting graphs of linear functions GM6.3 Volume and surface area of cuboids N6.1 Understanding ratio notation	Key learning to include: A3.2 Plotting graphs of linear functions N3.4 Rounding decimals GM1.7 Metric-imperial conversions GM1.8 Bearings GM4.2 Constructions with a ruler and protractor	Key learning to include: N6.3 Working with proportional quantities A1.4 Working with formulae A1.5 Setting up and solving simple equations A1.6 Using brackets A1.7 Working with more complex equations A1.8 Solving equations with brackets GM5.4 Reflection GM5.5 Rotation SP4.1 probability SP4.2 Single event probability
	Key learning to include: A3.2 Plotting graphs of linear functions SP3.2 Designing a questionnaire SP2.6 Scatter diagrams GM3.3 Circumference N1.8 Multiplying decimals N1.9 Dividing decimals	Key learning to include: A1.7 Working with more complex equations A1.8 Solving equations with brackets GM3.4 Area of circles N5.4 Applying percentage increases and decreases to amounts	Key learning to include: A4.1 Trial and improvement GM 2.7 Angles and parallel lines GM1.8 Bearings SP1.4 Using grouped frequency tables	Key learning to include: A2.4 Special sequences A3.3 The equation of a straight line GM6.4 2-D representations of 3-D shapes N4.5 Working with mixed numbers GM1.7 Metric-imperial conversions N6.3 Working with proportional quantities	Key learning to include: A4.2 Linear inequalities N3.5 Significance GM1.9 Scale drawing GM4.3 Constructions with a pair of compasses	Key learning to include: N6.2 Sharing in a given ratio A1.9 Simplifying harder expressions GM5.6 Enlargement SP4.3 Combined events N4.4 Add, sub fractions N4.6 Dividing fractions
	Key learning to include: A3.3 The equation of a straight line SP1.4 Using grouped frequency tables SP2.5 Displaying grouped data GM3.4 Area of circles N2.6 Writing numbers in standard form	Key learning to include: A1.9 Simplifying harder expressions GM3.5 Pythagoras' theorem N5.5 Finding the percentage change from one amount to another N5.6 Reverse percentages	Key learning to include: A4.2 Linear inequalities GM2.8 Angles in a polygon N7.5 Prime factorisation SP1.5 Interquartile range SP2.5 Displaying grouped data	Key learning to include: A2.5 Quadratic sequences A3.4 Plotting quadratic and cubic graphs GM6.5 Prisms GM1.10 Compound units N6.4 The constant of	Key learning to include: A4.3 Solve pairs of equations by substitution A4.4 Solve simultaneous equations using elimination A4.5 Using graphs to solve simultaneous equations N3.6 Approximating N3.7 Limits of accuracy GM4.4 Loci	Key learning to include: N6.5 Inversely proportional quantities A1.10 Using complex formulae GM5.7 Similarity GM5.8 Trigonometry SP4.4 Estimating probability

Curriculum plan: Mathematics



CONNECTED

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