

MATHS LONG TERM PLAN 2024-2025

YEAR 1 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1 - Block 1	Number and Place Sorting objects/ Counting objects to 10/Counting and writing numbers to 10[forward and backward]	Number and Place Identify one more and one less/ Comparing groups and comparing numbers of objects. [up to 10]	Number and Place value(6) Comparing numbers/ Ordering objects and numbers.[up to 10]/number line	Number and Place Parts and wholes/The part-whole model/ Write number sentences/Facts families-addition facts.	Addition and number bonds/ Find number bonds number bonds to 10	Addition and add together/ add more/ addition problems Find the missing number	Subtraction How many are left	Subtraction within Fact families /subtraction on a number line/add or subtract 1 or 2/solve word problems- addition and subtraction
	2D and 3D shapes	Addition and Subtraction within 20 (12)		Addition and Subtraction within 20 (18)		Revision(12)		
Term 1 - Block 2	Recognise and name common 2D shapes /Making patterns with shapes.(6)	Count to 20/understand 10/11,12 and 13/ 14,15 and 16/17,18 and 19/Understand 20/One more and one less/The number line to 20/Label number lines/ Estimate on a number line/Compare numbers to 20/Order numbers to 20		Adding by counting on within 20/Add ones using number bonds/Find and make number bonds to 20/doubles/near	Subtract ones using number bonds/Subtraction-count back/find the difference/Related facts-fact	Subtracting tens and ones/Solving word and picture problems – subtraction.		Reinforce all the concepts taught and discuss the worksheets for first summative exam
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 6	WEEK 6	WEEK 7	WEEK 8
Term 2 - Block 1	Measurement- Non-standard units of measure -length and height/comparing length and height/ solving word problems.	MULTIPLICATION AND DIVISION (12) Count in 2s/ count in 10s/count in 5s/ Equal groups		FRACTIONS (12) Recognise and find a half of a shape/Recognise a		Measurement/Money(Recognising coins/Recognising notes./Counting with coins/notes.	Measurement/Ti Before and after/Days of the week/ Months of the year/Telling time to the hour/to the half hour.	Number and Place Count to 50/ Numbers to 50/ 20, 30, 40 and 50/Count by making groups of 10s/ Groups of 10s and 1s/ Partition into 10s and 1s/ One more and one
	Measurement-mass and capacity (6) Heavier and lighter/ Measure mass/ Compare mass/ Full and empty/ Measure capacity/Compare capacity/word problems.	Position and direction (6) Describing position-left and right/forwards and backwards/Describe position-above and below/ ordinals		Number and Place value within 100(6) Counting to 100 /Exploring number patterns/Partitioning numbers /Comparing numbers /Ordering numbers/Bonds to 100.			Revision(12) Reinforce all the concepts taught and discuss the worksheets including revision topics .	

YEAR 2 LONG TERM PLAN with CURRICULUM STANDARDS

Term 1 - Block 1	Number – Number and Place value (18)			Number – Addition and Subtraction–2 (12)		Number – Addition and Subtraction–2 (18)		
	Numbers to 20/Count in 10s/Count in 10s and 1s/Recognise 10s and 1s/Build a number from 10s and 1s Use a place value grid/ Partition numbers to 100/Partition flexibility within 100within 100/Write numbers to 100 in expanded form/10s on a number line to 100/10s and 1s on a number line to 100/Estimate numbers on a number line/13)Compare numbers (1)			Fact families/Learn number bonds/Add and subtract two multiplies to 10 /Complements to 100 (tens)/ Add and subtract 1s/Add by making 10 Add using a number line/Add three 1- digit numbers/Add to the next 10/ Add across a		10 more, 10 less/Add and subtract 10s/Add two 2-digit numbers-add 10s and 1s/ Add two 2-digit numbers-add 10s then more 1s/Subtract a 2-digit number from a 2-digit number- not across 10/ Subtract a 2-digit number from a 2-digit number- across 10/How many more? How many fewer?/Subtraction-find the		
Term 1 - Block 2	Geometry – Properties of Shapes (12)		Measurements – Money (12)		Multiplication and Division(12)		Revision(12)	
	Identify and describe the properties of 2D/ 3D shapes, including the number of sides/ vertices/ faces and lines of symmetry. Making patterns with 2D/ 3D shapes.		Recognise and use signs for pounds (£) and pence (p); combine amounts to make a particular value and solve word problems/ Making one pound/Find the change.		Recognise equal groups/Make and addequal grou		Reinforce all the concepts taught and discuss the worksheets for first summative exam	
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2 - Block 1	Multiplication and Division(12)		Measurement - Length and Height (12)		Number – Fractions (18)			Measurement - Time
	2 times table/Divide by 2/Double and halve/Odd and even numbers/10 times table/Divide by 10 5 times table/Divide by 5/Bar modeling –grouping Bar modeling -sharing		Choose and use appropriate standard units to estimate and measure length/ height in any direction (m/cm)/ Compare and order lengths and heights/Four operations with lengths and heights.		Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. Counting in halves and quarters.			Telling and writing time to the hour, the half hour and to the quarter hour. Telling time to 5 minutes. Finding and
Term 2 - Block 2	Statistics (12)		Measurement - Mass, capacity and		Measurement -Position and direction (12)		Revision(12)	
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.		Choose and use appropriate standard units to estimate and measure mass (kg/g); temperature (°C); capacity(litres/ml). Compare and order mass, volume/capacity and record the results using >, < and =.		Language of position/Describing movement/ Describe turns/Describe movement and turns/Make patterns by turning shapes		Reinforce all the concepts taught and discuss the worksheets including revision topics for final exam.	

YEAR 3 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
m 1 - Block 1	Number – Number and Place value (12)		Number – Addition and Subtraction–1 (12)		Number – Addition and Subtraction–2 (12)		Number – Multiplication and Division–1 (12)	
	Recognise the placevalue of a 2digit number (10s , 1s) and partition 2 digit number.Use the number line to 100 (find half way between two numbers).Count in		.Use the number bonds.Add and subtract 1s,10s, 100s.Recognise the pattern.Add and subtract 1s across 10, 10s across100.Add and subtract numbers by connecting with 10 and		Add and subtract two numbers. Add and subtract two numbers across 10 and 100.Add a 3digit number and a 2- digit number.Subtract a 2-digit number from a 3-		Multiples of 2, 5, 10.Share and group. Multiply and divide by 3.The 3 times table. Multiply and divide by 4. The 4 times table.Multiply and divide by 8.The	

Ter	100s. Identify, represent and partition 3 digit numbers to 1000 flexibly using different	100.	digit number. Compliments to 100. Estimate and use inverse operations to check the	8 times table. Understand divisibility 1 & 2. Problem solving 1 & 2.
Term 1- Block 2	Number – Multiplication and Division–2 (12)	Measurements – Length and Perimeter (12)	Number- Fractions (12)	Revision(12)
	Multiples of 10 and their related calculations. Reasoning about multiplication. Multiply 2 digit number by 1 digit number - no exchange, by exchange. Expanded written method. Link multiplication and division. Divide 2- digit number by 1 digit number. no	Measure in metre, centimetre and millimetre. Equivalent lengths (m and cm), (mm and cm). Compare, add and subtract lengths. Measure perimeter. Calculate perimeter	. Understand the denominator of unit fractions. Compare and order unit fractions. Understand the numerator of non unit fractions. Understand the whole. Compare and order non unit fractions. Divisions on a number line. Count in fractions on a number	Reinforce all the concepts taught and discuss the worksheets for first summative exam

YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
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Term 2- Block 1	Measurement - Mass & Capacity (18)			Number – Fractions (18)			Geometry - Angles and Properties of	
	Use scales. Measure mass in kilograms and grams. Equivalent masses. Compare, add and subtract masses. Measure capacity and volume in litres and millilitres. Equivalent capacities and volumes in litres and millilitres. Compare, add and subtract capacity and volume.			Add and subtract fractions. Partition the whole. Unit and non unit fractions of a set of objects. Reasons with fractions of an amount.			Turns and angles. Right angles in shapes. Compare angles. Measure and draw accurately. Horizontal and vertical lines. Parallel and perpendicular lines. Recognise and describe 2D & 3D shapes. Make 3D shapes.	

Term 2- Block 2	Measurement -	Measurement - Time. (18)			Statistics (12)		Revision(12)	
	Pounds and Pence. Convert pounds and pence. Add and subtract money. Find change.	Roman numerals. Tell the time to the minute/ 5 minutes. Read time on a digital clock. Use am & pm. Years, months and days. Days and hours. Hours and minutes - start and end times, durations. Compare durations. Minutes and seconds. Solve problems with time.			Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions using information presented in scaled bar charts, pictograms and tables.		Reinforce all the concepts taught and discuss the worksheets including revision topics for final exam.	

YEAR 4 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
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ck 1	Number & Place Value (24)				Addition & Subtraction (12)		Measurement - Area (6)	Multiplication & Division (6)
	* Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s) and partition	* Identify, represent and estimate 4 digit numbers using different representations.	* Use the number line to 10,000 to represent 4-digit numbers. * Identify numbers in between two given	* Order and compare numbers 10,000. * Round numbers to the nearest 1000, 100 or 10.	* Add and subtract in 1s, 10s, 100s and 1000s. * Add and subtract two 4-digit numbers	* Estimate and use inverse operations to check answers to a calculation. * Solve addition and	* Find the area of rectilinear shapes by counting squares.	* Recall multiplication and division facts for multiplication tables up to 12x12.

Term 1- Block 2	Multiplication & Division (12)		Measurement - Length & Perimeter (12)		Fractions (12)		Revision (12)	
	* Recognise and use factor pairs and commutativity in mental calculations. * Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.	* Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. * Solve problems involving multiplying and dividing.	* Convert between different units of measure (cm-m / m-km) Work out missing lengths. * Calculate the perimeter of a rectangle, rectilinear shapes and polygons.	* Calculate the perimeter of a rectangle, rectilinear shapes and polygons. * Find the missing lengths in rectilinear shapes.	* Count beyond 1 in fractions. * Partition mixed numbers and use number lines to represent mixed numbers. * Compare and order mixed numbers.	* Convert mixed numbers to improper fractions and improper fractions to mixed numbers. * Recognise and show, using diagrams, families of common equivalent fractions.	Reinforce all the concepts taught for the first summative exam.	
YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Fractions (12)		Decimals (24)				Measurement - Money (12)	
	* Add and subtract fractions with the same denominator. * Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	* Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	* Recognise and write fraction and decimal equivalents of any number of tenths and represent it in place value grids and on number lines. * Find the effect of dividing a one- or two-digit number by 10, identifying the value of the digits in the answer as tenths and hundredths.	* Recognise and write fraction and decimal equivalents of any number of hundredths and represent it in place value grids and on number lines. * Find the effect of dividing a one- or two-digit number by 100, identifying the value of the digits in the answer as tenths and hundredths.	* Recognise making wholes using decimal numbers. * Partition decimal numbers identifying the value of the digits in the as tenths and hundredths.	* Compare and order decimals with the same number of decimal places up to 2 decimal places. * Round decimals with 1 or 2 decimal place to the nearest whole number. * Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$.	* Convert between pounds and pence and write money values using decimal numbers. * Estimate, compare and calculate using money in pounds and pence.	* Estimate, compare and calculate using money in pounds and pence. * Solve simple measure and money problems involving decimals to 2 decimal places.
	Measurement - Time (12)		Geometry - Angles & 2D Shapes (12)		Statistics (6)	Geometry - Position & Direction (6)	Revision (12)	
	* Find relations in	* Read, write and	* State the types of	* Identify, compare	* Interpret and	* Describe positions	Reinforce all the concepts taught for the	

Term 2- block 2	years, months, weeks, days, hours, minutes and seconds. * Read, write and convert time between analogue and digital 12-hour clocks.	convert time between analogue and digital 12 and 24-hour clocks. * Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.	angles and compare and order angles. * Identify, compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	and classify polygons based on their properties. * Identify lines of symmetry in 2-D shapes. *Complete a simple symmetric figure with respect to a specific line of symmetry.	present data using appropriate graphical methods. * Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and time/line graphs.	using coordinates in the first quadrant. * Plot specified points and draw to complete a given polygon. * Describe movements between positions as translations of a given unit to the left/ right and up/ down.	final exam
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YEAR 5 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	Number:Place value (5)	Number: Place value (5)	Addition and Subtraction (5)	Addition and Subtraction (5)	Multiplication and Division (5)	Multiplication and Division (5)	Fractions (5)	Fractions (5)
	•Read, write, order and compare numbers to at least 1,000, 000 and determine the value of each digit •Count forwards or backwards in steps of	•Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.	•Add and subtract whole numbers with more than 4 digits,including using formal written methods (columnar addition and	•Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	•Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers.	•Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 •Recognise and use square numbers and	•Compare and order fractions whose denominators are all multiples of the same number •Identify, name	•Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a
	Fractions (5)	Multiplication and Division (5)	Multiplication and Division (5)	Measure: Perimeter and Area (5)	Measure: Perimeter and Area (5)	Statistics:Graphs and Tables (5)	Revision(12)	
	•Add and subtract fractions with the same denominator and denominators that are multiples of	•Multiply numbers up to 4 digits by a one or two-digit number using a formal written method,	•Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and	•Measure and calculate the perimeter of composite rectilinear shapes in centimetres and	•Calculate and compare the area of rectangles (including squares) including using	•Solve comparison, sum and difference problems using information presented in a line	Reinforce all the concepts taught and discuss the worksheets for first summative exam	

Term 1- Block 2	the same number	including long multiplication for two-digit numbers	interpret remainders appropriately for the context •Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	metres •Calculate and compare the area of rectangles (including squares) including using standard units, square centimetres (cm ²) and square metres (m ²) and calculate the area of rectilinear shapes	standard units, square centimetres (cm ²) and square metres (m ²) and calculate the area of rectilinear shapes.	graph Complete, read and interpret information in tables, including timetables.			
	YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Fractions (5)	Fractions (5)	Decimals and Percentages (5)	Decimals (5)	Decimals (5)	Decimals (5)	Geometry: Properties of shape (5)	Geometry: Properties of shape (5)	
	<ul style="list-style-type: none"> •Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams •Find fractions of an amount. 	<ul style="list-style-type: none"> •Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams •Find fractions of an amount. 	<ul style="list-style-type: none"> •Recognise the per cent symbol (%) and understand that per cent relates to “number of parts per 100”, and write percentages as a fraction with denominator 100, and as a decimal fraction •Solve problems which require 	<ul style="list-style-type: none"> •Read and write decimal numbers as fractions •Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. 	<ul style="list-style-type: none"> •Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place •Read, write, order and compare numbers with up to 3 decimal places 	<ul style="list-style-type: none"> •Solve problems involving number up to 3 decimal places. 	<ul style="list-style-type: none"> •Know angles are measured in degrees: Estimate and compare acute, obtuse and reflex angles •Draw given angles, and measure them in degrees (°) 	<ul style="list-style-type: none"> •Identify: <ul style="list-style-type: none"> <input type="checkbox"/> Angles at a point and 1 whole turn (total 360°) <input type="checkbox"/> Angles at a point on a straight line and half a turn (total 180°) <input type="checkbox"/> Other multiples of 90° 	
Term 2- Block 2	Geometry: Properties of shape (5)	Geometry: Position and Direction (5)	Geometry: Position and Direction (5)	Negative numbers(5)	Measure: Converting units (5)	Measure: Volume and capacity (5)	Revision(12)		
	<ul style="list-style-type: none"> •Identify 3-D shapes, including cubes and other cuboids, from 2-D representations •Distinguish between 	<ul style="list-style-type: none"> •Plot and find coordinates of a reflected point on a grid. 	<ul style="list-style-type: none"> •Identify, describe and represent the position of a shape following a reflection or translation, using the 	<ul style="list-style-type: none"> •Interpret negative numbers in context, count forwards and backwards with positive and 	<ul style="list-style-type: none"> •Convert between different units of metric measure •Understand and use approximate 	<ul style="list-style-type: none"> • Estimate volume and capacity •Calculate volume 			

Term	regular and irregular polygons based on reasoning about equal sides and angles.		appropriate language, and know that the shape has not changed.	negative whole numbers, including through 0	equivalences between metric units and common imperial units such as inches, pounds and pints		
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YEAR 6 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	Number and Place value (5)	Four Operations: Addition, Subtraction, Multiplication &	Four Operations: Addition, Subtraction, Multiplication & Division (5)	Four Operations: Addition, Subtraction, Multiplication & Division (5)	Fractions (5)	Fractions (5)	Fractions (5)	Measurement: Converting units (5)
	<ul style="list-style-type: none"> •Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit •Round any whole number to a required degree of accuracy •Use negative numbers in context, and calculate intervals across 0 	<ul style="list-style-type: none"> •Perform mental calculations, including with mixed operations and large numbers. •Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Recognise and use square numbers and cube numbers, and the notation for 	<ul style="list-style-type: none"> •Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication •Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as 	<ul style="list-style-type: none"> •Use their knowledge of the order of operations to carry out calculations involving the 4 operations •Solve problems involving addition, subtraction, multiplication and division 	<ul style="list-style-type: none"> •Use common factors to simplify fractions; use common multiples to express fractions in the same denomination •Compare and order fractions, including fractions >1 	<ul style="list-style-type: none"> •Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions 	<ul style="list-style-type: none"> •Multiply simple pairs of proper fractions, writing the answer in its simplest form •Divide proper fractions by whole numbers 	<ul style="list-style-type: none"> •Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 2 decimal places where appropriate. • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a
Block 2	Ratio and Proportion (5)	Ratio and Proportion (5)	Ratio and Proportion (5)	Geometry: Properties of shape(5)	Geometry: Properties of shape(5)	Geometry: Properties of shape(5)	Revision(12)	
	<ul style="list-style-type: none"> •Solve problems involving the relative sizes of two quantities where missing values can 	<ul style="list-style-type: none"> •Solve problems involving unequal sharing and grouping using knowledge of 	<ul style="list-style-type: none"> •Solve problems involving similar shapes where the scale factor is known or can be found. 	<ul style="list-style-type: none"> •Compare and classify geometric shapes based on their properties and sizes and find unknown 	<ul style="list-style-type: none"> •Illustrate and name parts of circles, including radius, diameter and circumference and 	<ul style="list-style-type: none"> •Draw 2-D shapes using given dimensions and angles. •Recognise, describe and build simple 3-D 	Reinforce all the concepts taught and discuss the worksheets for first summative exam	

Term 1- Block	be found by using integer multiplication and division facts.	fractions and multiples.		angles in any triangles, quadrilaterals, and regular polygons. •Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	know that the diameter is twice the radius.	shapes, including making nets.			
	YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Algebra (5)	Algebra (5)	Algebra (5)		Decimal (5)	Decimal (5)	Percentage (5)	Percentage (5)	Measurements: Area, Perimeter & Volume(5)
	•Express missing number problems algebraically.	•Use simple formulae. "	• Generate and describe linear number sequences. •Find pairs of numbers that satisfy an equation with two unknowns.	•Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction. •Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers are up to three decimal places.	•Calculate the area of parallelograms and triangles.	•Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	•Find percentages of an amount.	•Recognise that shapes with the same areas can have different perimeters and vice versa.	
	Measurements: Area, Perimeter & Volume(5)	Measurements: Area, Perimeter & Volume(5)	Statistics (5)	Statistics (5)	Geometry: Position and Direction (5) ☒	Geometry: Position and Direction (5) ☒	Revision(12)		
	•Calculate the area of	•Recognise when it is	•Interpret and	•Calculate and	•Describe positions	•Describe positions on	Reinforce all the concepts taught and		

Term 2- block 2	parallelograms and triangles.	possible to use formulae for area and volume of shapes •Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units	construct pie charts and line graphs and use these to solve problems	interpret the mean as an average.	on the full coordinate grid (all 4 quadrants) •Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	the full coordinate grid (all 4 quadrants) •Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	discuss the worksheets for final exam
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YEAR 7 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 7	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	Unit2-Number skills Core 1- Unit 1- Number- core 2 (5)	Unit1-Number - core 2 (5)	Unit3-Equations, functions and formulae- core 1 (5)	Unit3-Equations, functions and formulae - Core 1. Unit 4 - Expressions and equations- core 2.	Unit 4 - Expressions and equations- core 2- (5)	Unit5 -Fractions & Percentages- core 1 (5)	s & Percentages-	Unit4-Fractions(5)
	Factors, multiples and primes (2.7 & 1.6). Negative numbers (2.6 & 1.3). Square nnumbers (2.8).	Roman Numerals, Powers and roots (1.4) . Powers,roots and brackets(1.5).	Functions (3.1), Simplifying expressions 1 &2 (3.2 & 3.3). Writing expressions (3.4). Substituting into formulae (3.6).	Writing Formulae (3.6). Algebraic powers (4.1). Expressions and brackets (4.2).	Factorising expressions (4.3). One step equations(4.4). Two step equations(4.5). The balancing method (4.6)	Comparing fractions (5.1). Simplifying fractions(5.2). Working with fractions (5.3). Fractions and decimals (5.4)	Understanding percentages (5.5). Percentages of amounts (5.6). Ordering Fractions (8.1). Adding and subtracting	Multiplying Fractions (8.3). Dividing fractions (8.4). Calculating with mixed numbers (8.5).
ck 2	Unit4 Decimals and measures - Core 1- (5)	Unit4 Decimals and measures - Core 1- (5)	unit 8-Lines and Angles(5)-core 1	unit 8-Lines and Angles(5)- core1	Unit 7- Ratio & Proportion- core 1(5)	Unit 6- Decimals and ratio- core 2, Unit 7- Ratio & Proportion- core 1(5)	Revision	
	Decimals ordering	Place value	Calculations with	Drawing triangles	Direct	Ratios, Proportios and	Reinforce all the concepts taught and	

Term 1 - Block 1	and rounding(4.1 & 6.1), Length , mass and capacity(4.2), Scales and measures(4.3),	calculations(6.2), More units of measures(4.8), Working with decimals(4.5).	decimals(6.3).Measuring and drawing angles(8.1), Lines ,angles and triangles(8.2).	accurately(8.3), Calculating angles(8.4),Angles in a triangle(8.5),Quadrilaterals (8.6&7.1).	proportion(7.1). Writing ratios(7.2),Using ratios(7.3).	Fractions(7.4). Proportions and Percentages(7.5) ,Ratio and proportion with decimals(6.4).	discuss the worksheets for first summative exam	
YEAR 7	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Unit3-3D solids(5) (delta2)	Unit6-Decimals(5)	Unit6-Decimals(5)	Unit8-Multiplicative Reasoning(5)	Unit8-Multiplicative Reasoning(5)	Unit 9-Sequences and graphs(5) core 1	Unit 9-Sequences and graphs(5) core 1	Unit1-Analysing and displaying data(5) (core 1)
	Alternate angles and proof(7.2).Angles in a parallel lines(7.3),	Exterior and interior angles(7.4), Solving geometric problems(7.5).	Area of a triangle (2.1), Area of a parallelogram and trapezium(2.2), Perimeter(4.6),Area (4.7)	Volume of cubes and cuboids(2.3),2D representations of 3D solids(2.4)	Surface area of cubes and cuboids(2.5), Measures(2.6)	Sequences(9.1), Pattern sequences(9.2), Coordinates and mid points(9.3).	Extending sequences(9.4), Straight line graphs(9.5), Position -to -term rules(9.6)	Mode, median and range(1.1), Displaying data(1.2), Grouping data(1.3).
Term 2- block 2	Unit1-Analysing and displaying data(5) (core 1)	Unit 3-Statistics , graphs and charts(5) -core 2	Unit6-Probability(5) (core2)	Unit6-Probability(5) (core2)	Unit 10- Transformations- core-2(5)	Unit 10- Transformations-core-2(5)	Revision	
	Averages and comparing data(1.4 &3.4), Line graphs and more bar charts(1.5),	Pie charts(3.1), Using tables (3.2), Mis leading graph(3.6)	The language of probability(6.1), Calculating probability(6.2), More probability calculations(6.3)	Experimental probability(6.4), expected outcomes(6.5)	Congruency and enlargements (10.1),symmetry (10.2), Reflection	Rotation (10.4),Translations and combined transformations(10.5)	Reinforce all the concepts taught and discuss the worksheets including revision topics	
YEAR 8 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 8	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Block 1	UNIT 1: Number -	UNIT 1: Indices	UNIT 1: Indices	UNIT 2:	UNIT 2:	UNIT 10:	UNIT 4	UNIT 4:
	Calculating with negative integers.	More powers, multiples and	More indices. Standard form.	Solving equations. Substituting into	Using and rearranging	Fractions and decimals. Equivalent	Percentage change. Ratios-	Transformations. Enlargement with

Term 1-B	Powers and roots. Powers, roots and brackets.	factors. Indices. Calculations and estimates.	significant figures.	expressions. Writing and using formulae.	formulae. Index laws and brackets. Expanding double brackets.	proportions. Writing percentages. Percentages of amount.	Revision. Direct and inverse proportion.	positive scale factor. Negative and fractional scale factors.
Term 1-Block 2	UNIT 5: Using scales. Draw diagrams to scale. Basic constructions(Perpendicular bisector and angle bisector).	UNIT 5: Constructing triangles. Using accurate scale diagrams to solve problems.	UNIT 9: Mutually Exclusive events. Experimental and theoretical probability.	UNIT 9: Sample scale diagrams. Two-way tables. Venn diagrams	UNIT 7:Circles, Circumference of a circle. Area of a circle. Pythagoras' theorem.	UNIT 7:Circles, Volume and Surface Area of Prisms and cylinders.	Revision - First term Exam Topics Reinforce all the concepts taught and discuss the worksheets for first summative exam	
	YEAR 8	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7
Term 2-Block 1	UNIT 9: Straight Gradient (plot straight line graphs and work out the gradient). Equation of straight lines.	UNIT 8: Graphs - Using $y=mx+c$ (equations of parallel lines). Compare graph lines using equations	UNIT 8: Graphs - More straight line graphs(Draw graphs with equation form $ax+by=c$, Rearrange equations into the form $y=mx+c$).	UNIT 8: Graphs - Simultaneous equations(by drawing graphs and solving equations). Graphs of quadratic functions	UNIT 8: Graphs - Simultaneous equations(by drawing graphs and solving equations). Graphs of quadratic functions	UNIT 6: Sequences, nth term of arithmetic sequences. Solving equations with fractions.	UNIT 6: Proportion (Write the formulae that connects variables, use algebra to solve problems). Conversion	Unit 3: Dealing Calculating averages(find median and estimate mean). Displaying and analysing data.
	Term 2-block 2	Unit 3: Dealing Presenting and comparing data. Mean, range and mode.	UNIT 5: Real life Distance time graphs(draw, interpret and use distance time graph). Line graphs.	UNIT 5: Real life More line graphs. Real life graphs(linear and non-linear)	UNIT 10: Angles and parallel lines - revision. Angles in a triangle and Polygon.	UNIT 10: Congruent and similar shapes(Use congruent shapes to solve problems).	UNIT 10: Ratios in triangles(Solve problems involving similar triangles).	Revision - Final exam topics Reinforce all the concepts taught and discuss the worksheets for final exam.

YEAR 9 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 9	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1-Block 1	UNIT 1 Number (6)	UNIT 1 Number Contd(6)	UNIT 1 Number Contd(4) + UNIT 2 Algebra (2)	UNIT 2 Algebra Contd (6)	UNIT 2 Algebra Contd (5) + Assessment 1	UNIT 3 Interpreting and representing data(6)	UNIT 3 Interpreting and representing data	UNIT 4 Fractions , Ratio and Percentages(6)
	Place value and estimating/ HCF and LCM/Calculating with powers (Indices)	Zero, negative and fractional indices . Standard form. Calculations with Standard form.	Surds. Algebraic indices.	Expanding brackets. Factorising algebraic expressions.Solving equations. Substituting numbers	Rearranging formulae. Linear sequences. Geometric sequences . Fibonacci like	Factorising quadratic expressions.Back - to - back stem and leaf diagrams. Frequency polygons.	Time series graphs.Moving averages. Mean and range from a grouped frequency	Operations on fractions and mixed numbers. Ratios

Te				into formulae.	sequences. Expand the product of two brackets.		table. Modal class and the group containing the median.	
Term 1- Block 2	UNIT 4 Fractions , Ratio and Percentages(6)	UNIT 5 Angles and Trigonometry	UNIT 5 Angles and Trigonometry Contd	UNIT 6 Graphs (6)	UNIT 6 Graphs (6)	UNIT 6 Graphs (6)	Revision (12)	
	Direct proportion. Percentage increase and decreases. Fractions , decimals and percentages. Recurring decimal to fraction. Solve real - life problems involving percentages.	Angle properties of triangles and quadrilaterals. Interior and exterior angles of polygons. Pythagoras theorem.	Trigonometric ratios to find lengths and angle in a right angled triangle. ngles of elevation and angles of depression.	Gradient and y - intercept from a linear equation. Plot graphs with equations $ax + by = c$. Equation of a line given its gradient and one point on the line. Gradient of a line .	Distance- time graphs.Velocity time graphs. Real- life linear graphs. To recognise direct proportion.	Midpoint and Length of a line segment. Parallel or perpendicular lines. To identify quadratic graphs.	Reinforce all the concepts taught and discuss the worksheets for first summative exam.	
YEAR 9	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	UNIT 3 Interpreting and representing data(3) + UNIT 7	UNIT 7 Area and Volume (6)	UNIT 7 Area and Volume (6)	UNIT 7 Area and Volume (6)	UNIT 8 Transformations and Constructions(6)	UNIT 8 Transformations and Constructions(6) + UNIT 9	UNIT 8 Transformations and Constructions(6)	UNIT 8 Transformations and Constructions(3) +
	Scatter graphs and line of best fit. Two - way tables.Units and Accuracy	Area and perimeter of compound shapes. Volumes and surface areas of prisms.	Area and circumference of a circle.Arc lengths , angles and areas of sectors of circles. Volume and surface area of cylinders and spheres	Volume and surface area of cylinders and spheres.Plans and elevations of 3D solids.	Reflections, rotations, translations and enlargements,	Scales on maps and scale drawings . Perpendicular bisector . Angle bisector	Bearings.Scale drawings.	Loci
block 2	UNIT 9 Equations and Inequalities(6)	UNIT 9 Equations and Inequalities(6)	UNIT 15 Equations and Graphs (2) + UNIT	UNIT 10 Probability (6)	UNIT 9 Equations and Inequalities(6)	UNIT 12 Similarity and Congruence (6)	Revision(12)	
	To solve quadratic equations by factorising . To rearrange and solve	To solve simultaneous equations where both equations are	To solve a pair of simultaneous equations graphically . Mutually exclusive	To calculate probabilities of repeated events. To draw and use	To solve inequalities and show the solutions on a number line.	Congruent triangles.Similar shapes	Reinforce all the concepts taught and discuss the revision worksheet for the final exam.	

Term 2-	simple quadratic equations	multiplied.	outcomes and events. To find probabilities of mutually exclusive outcomes and events. Expected results for experimental and theoretical probabilities	probability tree diagrams.	To find integer values to satisfy inequalities.		
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YEAR 10 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	Unit 2.6 Algebra (4)Unit 9 Equations and inequalities(2)	Unit 9 Equations and inequalities(6)	Unit 15 Equations and Graphs(4) +Assessment 1	Unit 15 Equations and Graphs(6)	Unit 15 Equations and Graphs(4) + Assessment 2	Unit 12 Similarity and congruence(6)	Unit 12 Similarity and congruence(6)	Unit 12 Similarity and congruence(6)
	.Find the nth term of a quadratic sequence (2.6).Solve quadratic equations by factorisation, use the quadratic formula (9.1,9.2)	Solve quadratic equations using completing the square, word problems on solving.(9.3)	Recognise and draw quadratic functions. Find approximate solutions to quadratic equations graphically.(6.6,15.3-15.4)	Recognise and draw quadratic functions. Find approximate solutions to quadratic equations graphically.(6.6,15.3-15.4)	To draw cubic and reciprocal graphs.Interpret linear and non linear real life graphs.(6.7& 6.8)	To show that two triangles are congruent.To know the conditions of congruence.To prove shapes are congruent.To solve problems involving congruence(12.1-12.2)	To use the ratio of corresponding sides to work out scale factors.To find missing lengths on similar shapes (12.3-12.4 till Q9)	Use the link between linear scale factor and area scale factor to solve problems. Use the link between scale factors for length, area and volume to solve problems
Term 1- Block 2	Equations and inequalities (6)	Equations and inequalities (6)	Equations and inequalities (6)	Unit 16 Circle theorems(6)	Unit 16 Circle theorems (Continue) (6)	Unit 16 Circle theorems (Continue) (6)	Revision(12)	
	Solve linear and quadratic simultaneous equations algebraically (9.6)	To solve linear and quadratic simultaneous equations graphically.(15.1)	To Solving linear inequalities (9.7). Solving inequalities graphically(15.2)	Understand about tangents at a point and from a point. Prove and use facts about angles subtended at the centre and the circumference, angle in a semicircle and angles subtended at the circumference of a circle(16.1,16.2)	Understand, prove and use facts about cyclic quadrilaterals and alternate segment theorem.Solve angle problems using circle theorems. equation of the tangent to a circle at a given point.(16.3,16.4)	.Applying circle theorems.(16.5) Unit 1.1 Number problems and solving	Reinforce all the concepts taught and discuss the worksheets for first summative exam	
YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8

Term 2- Block 1	Vectors and geometric proof (6)	Vectors and geometric proof (6)	Vectors and geometric proof (6)	Further statistics (4) Assessment 1	Further statistics (6)	Further statistics (4)+ Assessment 2	Probability(6)	Probability(6) (contd)
	Understand and use vector notation. Calculate using vectors and represent the solutions graphically. Calculate the resultant of two vectors.	Solve problems using vectors. Use the resultant of two vectors to solve vector problems. Express points as position vectors.	Prove lines are parallel. Prove points are collinear. Solve geometric problems in two dimensions using vector methods. Apply vector methods for simple geometric proofs.	Understand simple random sample and stratified sample. Draw and interpret cumulative frequency tables.	Work out the median, quartiles and interquartile range from a cumulative frequency diagram. Draw and interpret box plots. (14.1 - 14.3)	Draw and interpret box plots. (14.1 - 14.3)	Draw and use tree diagrams without replacement. Use two-way tables to calculate conditional probability.	Draw and use tree diagrams without replacement. Use Venn diagrams to calculate conditional probability. Use set notation.
Term 2- block 2	Unit 13 More Trigonometry(6)	Unit 13 More Trigonometry(6)	Unit 13 More Trigonometry(6)	Multiplicative reasoning(6)	Multiplicative reasoning(6)	Multiplicative reasoning(6)	Revision(12)	
	Find the area of a triangle and a segment of a circle. Use the sine rule to solve 2D problems. (13.5)	Use the sine rule to solve 2D problems. (13.5) Use the cosine rule to solve 2D problems. (13.6) Solve bearings problems using trigonometry. (13.6)	Use the cosine rule to solve 2D problems. Solve bearings problems using trigonometry. (13.6)	Find an amount after repeated percentage changes. growth and decay, rates. Convert metric speed measures. Compound measures.	Convert metric speed measures. Compound measures.	Solve problems involving compound measures. Use relationships involving ratio. Use direct and indirect proportion.	Reinforce all the concepts taught and discuss the worksheets including revision topics of year 9 for final exam	

YEAR 11 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 11	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7 AND WEEK 8
1- Block 1	Unit 13 More	More	More	Unit 19 Proportion	Unit 13 More	Unit 6 Graphs(5)	Unit 19 Proportion and Graphs(8)
	Use upper and lower bounds in calculations, Calculating areas and the sine rule, The	Solving problems in 3D	Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5	Translating, Reflecting and Stretching graphs of functions	Reflecting, translating and stretching Trigonometric curves, Solve	D/T, V/T and More real life graphs	Calculate the gradient of a tangent at a point, Estimate the area under a non linear graph. Assessment 3

Term 1	cosine rule and 2D trigonometric problems				equations. Assessment - 2 Transformation			
	Unit 15 Equations To find an accurate root of a quadratic and cubic equation by using iterative process. Assessment - revision unit 9 and unit 15	Unit 14 Further Sampling, cumulative frequency, box plots	Further Statistics(5) Drawing and interpreting cumulative frequency curve, Histograms, comparing and describing population Assessment revision units - 1,2,4,	Unit 17More Algebraic fractions, surds, solving algebraic fraction equations , functions	Unit11Multiplicati Growth, decay, compound measures, ratio and proportion	Unit 7Area and Prisms, circles, sectors of circles, cylinders and spheres, pyramids and cones	Revision Reinforcing all the concepts done and discussion of past papers.	
Term 1- Block 2								
YEAR 11	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Unit16Circle To prove and apply all the circle theorems	Unit18Vectors and Vector Arithmetic, Parallel and collinear vectors, Solving geometric problems Assessment 1	Unit10Probability(5) Mutually exclusive, Independent events, Experimental probbaility, conditional probability, venn diagrams and set notation	Unit12Similarity and Similar , Congruent triangles,	Similarity and similarity in 3D shapes. Assessment 2	Unit3Interpreting and Time series, scatter diagrams, line of best fit, averages and range	Unit8Transforma Reflection, Translation, enlargement and Rotation, Bearings and scale drawings	Transformation and Constructions and loci
	Revision Reinforcing all the concepts taught. Disussion of sample papers and mock papers.							
Term 2- block 2								
YEAR 12 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8

Term 1- Block 1	Algebraic	Quadratics(3)	Quadratics(1) &	Equations and	Graphs and	Graphs and	Straight Line	Circles(3)
	Expanding Brackets and Factorising, Index Laws, Negative and Fractional Indices, Surds and Rationalising denominators	Solving Quadratic Equations by (i) Factorising (ii) Quadratic Formula, Completing the square, Functions and Sketching Quadratic graphs	Finding the nature of roots using Discriminant, Modelling with quadratics, Solving Linear simultaneous equations, Solving Quadratic Simultaneous	Representing simultaneous equations on graphs, Solving Linear Inequalities, Solving Quadratic inequalities, Inequalities on graphs, Regions	Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point of intersection	Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line	Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and Perpendicular Bisectors, Equation of a	Intersection of straight lines and circles, Use tangent and Chord Properties, Circles and triangles
	Data collection(3)	Measures of	Measures of location	Measures of location	Representation of	Representation of	Correlation(3)	Correlation(3)
	Population and samples, Sampling, Non random sampling, Types of data, Large data set.	Measure of central tendency: Mean Median Mode and Quartiles.	Percentile, Measures of spread, Variance and standard deviation.	Variance and standard deviation and Coding.	Outliers, Box plots and Cumulative frequency.	Histogram with unequal intervals and Comparing data.	Scatter Diagram and Correlation, Linear regression	Interpretation of regression line and gradient.
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 2	Algebraic	Algebraic	Binomial	Trigonometric	Trigonometric	Trigonometric	Revision	Revision
	Algebraic fractions, Dividing polynomials, Factor theorem, Mathematical Proof	Methods of proof & Pascal's triangle, Factorial Notation and Binomial Expansion	Solving binomial problems, Binomial Estimation & Cosine Rule, Sine Rule	Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming trigonometric graphs	Angles in all four quadrants, Exact value of trigonometrical ratios, Trigonometric identities	Simple trigonometric equations, Harder trigonometric equations, Equations and Identities		
	Probability(3)	Probability(3)	Probability(3)	Statistical	Statistical	Statistical	Revision	Revision
	Calculating Probabilities and Venn Diagrams.	Mutually exclusive and Independent events.	Tree diagrams and Conditional Probability	Probability Distributions	Binomial Distribution	Cumulative Probabilities		
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Vectors(3)	Vectors(2) &	Differentiation (3)	Differentiation (3)	Differentiation (3)	Integration(3)	Integration(3)	Integration(3)
	Vector notation, Representing as	Solving geometric problems, modelling with vectors &	Differentiating	Increasing and decreasing functions.				

Term 2- Block 1	representing as column vectors, Magnitude and direction and Position vectors.	Gradient of curve, Finding the derivative, Differentiating x^n	quadratics, functions with two or more terms, Tangents and normals	Second order derivatives, Stationary points, Maximum and minimum points	Sketching gradient functions, Modelling with differentiation.	Integrating x^n , Indefinite integrals, Finding functions using integration	Definite integrals, Areas under the curve, Areas under the x axis	Area between curve and line & Exponential Functions
	Hypothesis	Hypothesis	Hypothesis	Regression,	Regression,	Conditional	Conditional	Conditional
	Test Statistic, Null and Alternative Hypothesis and Finding Critical Values.	One tailed test, Comparing significance level and finding critical region.	Two tailed test, Comparing significance level and finding critical region.	Exponential Models and Measuring correlation.	Hypothesis Testing for zero correlation.	Set Notation, Conditional Probability.	Conditional Probabilities in Ven diagrams.	Probability Formulae
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 2	Exponentials and	Exponentials and	Exponentials and	Algebraic	Radian Measure(3)	Binomial Expansion (3)	Revision	Revision
	Graph of $y = e^x$, Exponential modelling, Logarithms,	Laws of logarithms , Solving equations using logarithms.	Working with natural logarithms, Logarithms and non linear data.	Algebraic fractions, Partial Fractions, Repeated Factors and Algrbraic division & Radian Measure, Arc length.	Area of sector and segment, Solving trigonometric equations and Small Angle Approximation.	Expanding $(1+x)^n$ and $(a+bx)^n$, Using partial fraction.		
	Conditional	Normal	Normal	Normal	Normal	Normal	Revision	Revision
Conditional Proabilities in Tree Diagrams.	Understanding normal distribution and its characteristics and Finding probabilities for normal distriptions.	Inverse normal distribution function and Standard Normal Distribution.	Finding μ and σ .	Approximating a Binomial Distribution.	Hypothesis Testing with the Normal Distribution.			
YEAR 13 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
n 1- Block 1	Algebraic	Functions and	Functions and	Functions and	Sequences and	Sequences and	Trigonometric	Trigonometric
	Proof by contradiction & The modulus fuction	Functions and mappings, Sketching modulus functions	Composite functions, inverse functions and Combining transformations.	Solving modulus problems & Arithmetic Sequence and series	Geometric sequence and series, Sum to infinity.	Sigma Notation, recurrence relation and Modelling with series	Using Partial Fractions to simplify the Binomial Expansion & Sketching and using Graphs of Sec x, Cosec x and Cot x in	Inverse trigonometric functions & Using Angle Addition Formula and Double angle formula.
	Modelling in	Constant	Constant	Forces and	Forces and	Forces and Motion(3)	Variable	Variable

Term	Constructing a model and modelling assumptions, Quantities and units and working with vectors.	Displacement-time graph, Velocity-time graph.	Constant Acceleration Formula 1 and 2, Vertical motion under gravity.	Force diagrams, Forces and vectors, Force and Acceleration.	Motion in 2 dimensions, Connected Particles.	Connected Particles and Pulleys.	Functions of time using differentiation, Maxima and Minima problems.	Using Integration and constant acceleration formula.
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 2	Trigonometry and	Trigonometry and	Parametric	Parametric	Differentiation (3)	Differentiation(3)	Revision	Revision
	Solving trigonometric equations. Simplifying a $\cos x \pm b \sin x$, Proving trigonometric identities	Modelling with trigonometric functions.	Parametric Equations, Using trigonometric identities.	Curve Sketching, Points of intersection and modelling with parametric equations.	Differentiating exponentials and logarithms and trigonometric functions. Chain rule, Product rule, Quotient rule	Parametric Differentiation, Implicit Differentiation using second derivatives, Rates of change.		
	Moments(3)	Moments(3)	Moments, Forces(2)	Forces and	Forces and	Projectiles(3)	Projectiles(3)	Projectiles(1) &
Moments, Resultant Moments.	Equilibrium and Centre of mass.	Tilting & Resolving Forces	Inclined Planes and Friction	Friction & Horizontal Projection	Horizontal and Vertical Components, Projection at any angle.	Projection at any angle and Projectile Motion Formulae.	Projectile Motion Formulae & Module Test.	
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Integration(3)	Integration(3)	Integration(3)	Numerical	Vectors(3)	Vectors(3)	Revision	Revision
	Integrating standard functions, $f(ax+b)$, Using trigonometric identities, reverse chain rule	Integration by substitution, Integration by parts, Partial fractions,	Finding areas, trapezium rule, solving differential equations, modelling with differential equations.	Locating roots, Iteration, The Newton Raphson method, Applications to modelling.	3D coordinates, vectors in 3D, Solving geometric problems.	Application to Mechanics.		
	Applications of	Applications of	Applications of	Applications of	Further	Further	Further	Further
Static Particles, Modelling with statics.	Friction and Static Particles, Static Rigid Bodies.	Static Rigid Bodies, Dynamics and inclined Planes.	Dynamics and inclined Planes and Connected Particles.	Vectors in Kinematics and Vector Methods and	Vector Methods and projectiles and Variable Acceleration in one	Variable Acceleration in one dimension and	Integrating Vectors & Module Test.	

					projectiles.	dimension.	Differentiating Vectors.	
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 2	Revision	Revision						
	Revision	Revision						