MATHS LONG TERM PLAN 2025-2026

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 value (6)** Sorting objects/ Counting objects to 10/ Represent numbers to 10/ Count objects from a larger group/ Count on from any number	**Number and Place value (6)** one more Count backwards from 10 to 0 one less Comparing groups fewer or more	**Number and Place** <, > or = Comparing numbers/ Ordering objects and numbers/ The number line.	**Number and Place value(6)** Parts and wholes/The part-whole model/ Write number sentences/Facts families-addition facts.	**Number and Place value(6)** number bonds Find number bonds number bonds to 10	**Addition and Subtraction(6)** add together/ add more/ addition problems Find the missing number	**Subtraction within 10 (6)** how many are left? (1) how many are left? (2) break apart (1) break apart (2)	**Subtraction within 10 (6)** Fact families Subtraction on a number line Add or subtract 1 or 2 Solve word problems-addition and subtraction.
Term 1 - Block 2	**2D and 3D shapes(6)** Recognise and name common 2D shapes /Making patterns with shapes.(6)	**Number and Place value(6)** Counting and writing numbers to 20 Tens and ones.(1 and 2) Counting one more/ less	**Number and Place** Comparing numbers of objects Comparing numbers Ordering objects and numbers to 20.	**Addition and Subtraction within 20** Adding by counting on within 20/Add ones using number bonds/Find and make number bonds to 20/doubles/near doubles	**Addition and Subtraction within** Subtract ones using number bonds/Subtraction-count back/find the difference/Related facts-fact families/missing number problems/.	**Addition and Subtraction within 20 (6)** Subtracting tens and ones/Solving word and picture problems – subtraction.		**Revision(12)** Reinforce all the concepts taught and discuss the worksheets for first summative exam

YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	**MEASUREMENT-LENGTH/HEIGHT-(6)** Non-standard units of measure -length and height/comparing length and height/ solving word problems.	**Multiplication and division (6)** Count in 2s Count in 10s Count in 5s	**Multiplication and divisio** Add equal groups Make doubles Grouping Sharing	**Fractions (6)** Recognise and find a half of a shape	**Fractions (6)** Recogni Recognise and find a quarter of a shape	**Measurement/Money(6)** Recognise coins Recognise notes Count coins	**Measurement/Time (6)** Before and after Days of the week Months of the year Tell the time to the hour Tell the time to the half hour	**Number and Place value within 50 (6)** 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 less.
Term 2- block 2	**Measurement-mass and capacity (6)** Heavier and lighter/ Measure mass/ Compare mass/ .	**Measurement-mass and capacity (6)** Full and empty/ Measure capacity/Compare capacity/word problems	**Position and direction** Describing turns Describe position-left and right Describe position-forwards and backwards	**Position and direction (6)** Describe position-above and below Ordinal numbers	**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

YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	**Numbers to 100(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 100 /Write numbers to 100 in expanded form /10s on a number line to 100 /10s and 1s on a	Compare numbers (1) /Compare numbers (2) /Order numbers/Count in 2s, 5s and 10s /Count in 3s	**Number – Addition and Subtraction–1 (12)** Fact families/ Learn number bonds/Add and subtract two multiples 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/ Subtract across a 10/ Subtract from a 10/ Subtract a 1-digit number from a 2- digit number-across 10		**Number – Addition and Subtraction–2 (18)** 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 difference/Compare number sentences/Missing number problems/Mixed addition and subtraction/ Two- step problems	
Term 1- Block 2	**Geometry – Properties of Shapes (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.			**Measurements – Money (12)** 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.		**Multiplication and Division(12)** Recognise equal groups/Make and add equal groups / The x sign/ Multiplication sentence	**Revision(12)** 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)** 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		**Measurement - Length and Height (12)** 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.		**Number – Fractions (18)** 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.		**Measurement - Time (6)** Telling and writing time to the hour, the half hour and to the quarter hour. Telling time to 5 minutes. Finding and comparing durations of time. Finding the start time and end time.	
Term 2- Block 2	**Statistics (12)** Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.		**Measurement - Mass,capacity and temperature(12)** 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 =.		**Measurement -Position and direction (12)** Language of position/Describing movement/ Describe turns/Describe movement and turns/Make patterns by turning shapes		**Revision(12)** 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
1- Block 1	**Number – Number and Place value (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 100s.Identify , represent and partition 3 digit numbers to 1000 flexibly using different representation.Recognise the place value of each digit in a three digit number.Use the number line to 1000 and			**Number – Addition and Subtraction–1 (12)** .Use the number bonds.Add and subtract 1s,10s, 100s.Recognise the pattern.Add and subtract1s across 10, 10s across100.Add and subtract numbers by connecting with 10 and 100.		**Number – Addition and Subtraction–2 (12)** 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-digit number.Compliments to 100.Estimate		**Number – Multiplication and Division–1 (12)** 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 8 times table.Understand divisibility1 &2.

Term	estimate numbers on a number line. Find 1, 10 and 100 more or less than a given number. Compare and order numbers to 1000.Count in 50s and 100s.		and use inverse operations to check the answers to a calculations.Problem solving 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 exchange,flexible partitioning and with remainders. How many ways.	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 line. Equivalent fractions- as bar models, on a numberline and as a fraction wall.	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

Term 2 - Block 1

Measurement - Mass & Capacity (18)	Number – Fractions (18)	Geometry - Angles and Properties of shapes(12)
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 &3Dshapes. Make 3D shapes.

Term 2 - Block 2

Measurement - Money (6)	Measurement - Time.(!8)	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

Term 1 - Block 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 4-digit numbers. * Use the number line to 1,000. * Identify the multiples of 1000, and skip count in 1,000s.	* Identify, represent and estimate 4 digit numbers using different representations. * Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s) and partition 4-digit numbers. * Find 1, 10, 100, 1000 more or less than a given number.	* Use the number line to 10,000 to represent 4-digit numbers. * Identify numbers in between two given numbers. * Find the previous or next multiple of a number. * Estimate numbers on a number line to 10,000. * Count backwards through 0 to include negative numbers.	* Order and compare numbers 10,000. * Round numbers to the nearest 1000, 100 or 10. * Write Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value.	* Add and subtract in 1s,10s, 100s and 1000s. * Add and subtract two 4-digit numbers using the formal written methods of columnar addition and subtraction with and without exchanges.	* Estimate and use inverse operations to check answers to a calculation. * Solve addition and subtraction problems involving one/ two/ multi-steps and comparison in contexts, deciding which operations and methods to use and why.	* Find the area of rectilinear shapes by counting squares.	* Recall multiplication and division facts for multiplication tables up to 12×12. * Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1 and multiplying three numbers.

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 ¼; ½; ¾.	* 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 years, months, weeks, days, hours, minutes and seconds.	* Read, write and convert time between analogue and digital 12 and 24-hour clocks.	* State the types of angles and compare and order	* Identify, compare and classify polygons based on their properties.	* Interpret and present data using appropriate graphical methods.	* Describe positions using coordinates in the first quadrant. / Reinforce all the concepts taught for the final exam

| Term 2- block 2 | * Read, write and convert time between analogue and digital 12-hour clocks. | * Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days. | angles. * Identify, compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. | * Identify lines of symmetry in 2-D shapes. *Complete a simple symmetric figure with respect to a specific line of symmetry. | * Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and time/line graphs. | * 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. | |

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 powers of 10 for any given number up to 1,000,000	•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 subtraction) •Use rounding to check	•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. •Establish whether a number up to 100 is prime and recall prime numbers up to 19	•Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 •Recognise and use square numbers and cube numbers, and the notation for squared (x^2) and cubed (x^3)	•Compare and order fractions whose denominators are all multiples of the same number •Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and	•Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number.
Term 1- Block 2	**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 the same number	•Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers	•Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context •Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	•Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres •Calculate and compare the area of rectangles (including squares) including using standard units, square centimetres (cm2) and square metres (m2) and calculate the area of rectilinear shapes	•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.	•Solve comparison, sum and difference problems using information presented in a line graph •Complete, read and interpret information in tables, including timetables.	Reinforce all the concepts taught and discuss the worksheets for first summative exam	

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)**
	•Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams •Find fractions of an amount.	•Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams •Find fractions of an amount.	•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 knowing percentage and decimal equivalents of 1/2, 1/4,	•Read and write decimal numbers as fractions •Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	•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	•Solve problems involving addition and subtraction of decimal number up to 3 decimal places.	•Know angles are measured in degrees: Estimate and compare acute, obtuse and reflex angles •Draw given angles, and measure them in degrees (º)	•Identify: ☐Angles at a point and 1 whole turn (total 360º) ☐Angles at a point on a straight line and half a turn (total 180º) ☐Other multiples of 90º
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)**	
	•Identify 3-D shapes, including cubes and other cuboids, from 2-D representations •Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	•Plot and find coordinates of a reflected point on a grid.	•Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	•Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0	•Convert between different units of metric measure •Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	• Estimate volume and capacity •Calculate volume		

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
	Number and Place value (5)	**Four Operations: Addition, Subtraction, Multiplication & Division (5)**	**Four Operations: Addition, Subtraction, Multiplication & Division (5)**	**Four Operations: Addition, Subtraction, Multiplication & Division (5)**	**Fractions (5)**	**Fractions (5)**	**Fractions (5)**	**Meaurement: Converting units (5)**
	•Read, write, order and compare numbers up to 10 000 000 and	•Perform mental calculations, including with	•Multiply multi-digit	•Use their knowledge of the order of	•Use common factors to simplify	•Add and subtract fractions with different	•Multiply simple pairs of	•Solve problems involving the calculation and

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1 - Block 1	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	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 squared (2) and cubed (3). Identify common factors, common multiples and prime numbers.	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 appropriate for the context	operations to carry out calculations involving the 4 operations •Solve problems involving addition, subtraction, multiplication and division	fractions; use common multiples to express fractions in the same denomination •Compare and order fractions, including fractions >1	denominators and mixed numbers, using the concept of equivalent fractions	proper fractions, writing the answer in its simplest form •Divide proper fractions by whole numbers	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 larger unit, and vice versa, using decimal notation to up to 3 decimal places. •Convert between miles and kilometres
Term 1 - 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)
	•Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.	•Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	•Solve problems involving similar shapes where the scale factor is known or can be found.	•Compare and classify geometric shapes based on their properties and sizes and find unknown 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.	•Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.	•Draw 2-D shapes using given dimensions and angles. •Recognise, describe and build simple 3-D shapes, including making nets.		Reinforce all the concepts taught and discuss the worksheets for first summative exam

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.Write and solve algebraic equations	• 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.
Term 2- block 2	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 parallelograms and triangles.	•Recognise when it is 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	•Interpret and construct pie charts and line graphs and use these to solve problems	•Calculate and interpret the mean as an average.	•Describe positions on the full coordinate grid (all 4 quadrants) •Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	•Describe positions on the full coordinate grid (all 4 quadrants) •Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.		Reinforce all the concepts taught and discuss the worksheets for final exam

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- (5)	Unit 4 - Expressions and equations- core 2- (5)	Unit5 -Fractions & Percentages- core 1 (5)	actions & Percentages- (5)	Unit4-Fractions(5)
	Factors, multiples and primes (2.7 & 1.6). Negative numbers (2.6 & 1.3). Square nmumbers (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	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	Multiplying Fractions (8.3). Dividing fractions (8.4). Calculating with mixed numbers (8.5).

T			(3.6).					subtracting fractions (8.2)

		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)		Revision
Term 1 - Block 2							Unit 6- Decimals and ratio- core 2, Unit 7- Ratio & Proportion- core 1(5)	
		Decimals ordering and rounding(4.1 & 6.1), Length , mass and capacity(4.2), Scales and measures(4.3),	Place value calculations(6.2), More units of measures(4.8),Working with decimals(4.5).	Calculations with decimals(6.3).Measuring and drawing angles(8.1), Lines ,angles and triangles(8.2).	Drawing triangles accurately(8.3),Calculating angles(8.4),Angles in a triangle(8.5),Quadrilaterals (8.6&7.1).	Direct proportion(7.1). Writing ratios(7.2),Using ratios(7.3).	Ratios, Proportios and Fractions(7.4). Proportions and Percentages(7.5) ,Ratio and proportion with decimals(6.4).	Reinforce all the concepts taught and 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)	Area & circumference of a circle, semi circle and quarter circle.	Surface area of cubes and cuboids(2.5), Measures(2.6)Volume of cubes and cuboids(2.3),2D representations of 3D solids(2.4)	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
Term 1 - Block 1	UNIT 1: Number - Unit 1.3 to 1.6 Revision (Core 2)(5	UNIT 1: Indices and standard form - Unit 1.1	UNIT 1: Indices and	UNIT 2: Expressions and formulae -	UNIT 2: Expressions and	UNIT 10: Percentages, decimals and	UNIT 4 Multiplicative	UNIT 4: Multiplicative reasoning Unit 4.1 and
	Calculating with negative integers. Powers and roots. Powers, roots and brackets.	More powers, multiples and factors. Indices. Calculations and estimates.	More indices. Standard form. significant figures.	Solving equations. Substituting into expressions. Writing and using formulae.	Using and rearranging formulae. Index laws and brackets. Expanding double brackets.	Fractions and decimals. Equivalent proportions. Writing percentages. Percentages of amount.	Percentage change. Repeated percentage change	Transformations Revision-translation, reflection, rotation,enlargement.
Term 1 - Block 2	UNIT 6: Sequences, Inequalities, equations and proportion(Core 3)	UNIT 6: Sequences, Inequalities, equations	UNIT 9:	UNIT 9: PROBABILITY (Core 3) -	UNIT 7:Circles, Pythagoras and	UNIT 7:Circles, Pythagoras and Prisms 7.4 to	Revision - First term Exam Topics	
	nth term of arithmetic sequences. Solving equations with fractions.	Proportion (Write the formulae that connects variables, use algebra to solve problems). Conversion graphs.	Mutually Exclusive events. Experimental and theoretical probability.	Sample space diagrams. Two-way tables. Circumference of a circle. Area of a circle.	Circumference of a circle. Area of a circle. Area of the sector and arc length. Pythagoras' theorem.	Volume and Surface Area of triangular Prisms and cylinders.	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	WEEK 8
Term 2- Block 1	UNIT 9: Straight line Graphs - Unit 9.2 and 9.3(Core 2) (5	UNIT 8: Graphs - UNIT 8.1 (Core 3) (5	UNIT 8: Graphs -	UNIT 8: Graphs - UNIT 8.3 (Core	UNIT 5: Constructions (Core 3) -	UNIT 5: Constructions (Core 3) - Unit 5.1 to	UNIT 5: Constructions	Unit 3: Dealing with Data - Unit 3.3 and 3.4
	Gradient (plot straight line graphs and work out the gradient). Equation of straight lines.	Using y=mx+c (equations of parallel lines). Compare graph lines using equations	More straight line graphs(Draw graphs with equation form ax+by=c, Rearrange equations into the form y=mx+c).	Simultaneous equations(by drawing graphs and solving equations).	Using scales. Draw diagrams to scale. Revision-Basic constructions(Perpendicular bisector and angle bisector).	Constructing triangles. Using accurate scale diagrams to solve problems.	Using accurate scale diagrams to solve problems. Draw locus.	Calculating averages(find median and estimate mean). Displaying and analysing data.
Term 2- block 2	Unit 3: Dealing with Data - Unit 3.5 (Core 3) (5 lessons)	UNIT 5: Real life graphs (Core 2) - UNIT 5.2	UNIT 5: Real life	UNIT 10: Comparing shapes - Unit	UNIT 10: Comparing shapes -	UNIT 10: Comparing shapes - Unit 10.2 (core	Revision - Final exam topics	
	Presenting and comparing data. Mean, range and mode.	Distance time graphs(draw, interpret and use distance time graph). Line graphs.	More line graphs. Real life graphs(linear and non-linear)	Angles and parallel lines - revision. Angles in a triangle and Polygon.	Congruent and similar shapes(Use congruent shapes to solve problems).	Ratios in triangles(Solve problems involving similiar triangles).	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 (6)	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 into formulae.	Rearranging formulae. Linear sequences. Geometricsequences. Fibonacci like sequences. Expand the product of two brackets.	Factorising quadratic explestions.Back - to - back stem and leaf diagrams. Frequency polygons.	Time series graphs.Moving averages. Scatter graphs and line of best fit. Two -way tables.Mean and range from a grouped frequency table. Modal class and the group containing the median.	Operations on fractions and mixed numbers. Ratios
Term 1 - Block 2	UNIT 4 Fractions , Ratio and Percentages(6) + Assessment 2	UNIT 5 Angles and Trigonometry Contd (6)	UNIT 5 Angles and Trigonometry Contd (6)	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 7 Area and Volume (6)	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 9	UNIT 8 Transformations and Constructions(3) + UNIT 9 Equations and Inequalities(3)
	Area and perimeter of compound shapes.Units and Accuracy	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
Term 2- block 2	UNIT 9 Equations and Inequalities(6)	UNIT 9 Equations and Inequalities(6)	UNIT 15 Equations and Graphs (2) + UNIT 10 Probability (4)	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 simple quadratic equations	To solve simultaneous equations where both equations are multiplied.	To solve a pair of simultaneous equations graphically . Mutually exclusive outcomes and events. To find probabilities of mutually exclusive outcomes and events. Expected results for experimental and theoretical probabilities.	To calculate probabilities of repeated events. To draw and use probability tree diagrams.	To solve inequalities and show the solutions on a number line. To find integer values to satisfy inequalities.	Congruent triangles.Similar shapes	Reinforce all the concepts taught and discuss the revision worksheet for the final exam.	

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	Equations andGraphs(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)Solve linear and quadratic simultaneous equations algebraically (9.6)To solve linear and quadratic simultaneous equations graphically.(15.1)	Solve linear and quadratic simultaneous equations algebraically (9.6)To solve linear and quadratic simultaneous equations graphically.(15.1)	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	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
	Unit 16 Circle theorems(6)	Unit 16 Circle theorems(6)	Unit 16 Circle theorems(6)	Equations and inequalities (6)	Multiplicative reasoning(6)	Multiplicative reasoning(6)	Revision(12)	
	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(	Understand, prove and use facts about cyclic quadrilaterals and alternate segment theorem.Solve angle problems using circle	Applying circle theorems.(16.5)	To Solving linear inequalities (9.7). Solving inequalities graphically(15.2)Solving Quadratic Inequalities	Find an amount after repeated percentage changes. growth and decay, rates.	.Solve problems involving compound measures. Use relationships involving ratio. Use direct and indirect proportion	Reinforce all the concepts taught and discuss the worksheets for first summative exam	

Term 1 - Block 2							
16.1,16.2)	theorems. equation of the tangent to a circle at a given point.(16.3,16.4)				.Convert metric speed measures. Compound measures.		

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)** Understand and use vector notation. Calculate using vectors and represent the solutions graphically. Calculate the resultant of two vectors. .	**Vectors and geometric proof (6)** Solve problems using vectors. Use the resultant of two vectors to solve vector problemsExpress points as position vectors .	**Vectors and geometric proof (6)** Prove lines are parallel. Prove points are collinear Solve geometric problems in two dimensions using vector methods. Apply vector methods for simple geometric proofs.	**Further statistics (4) Assessment 1** Understand simple random sample and stratifi ed sample. Draw and interpret cumulative frequency tables.	**Further statistics (6)** Work out the median, quartiles and interquartile range from a cumulative frequency diagram.	**Further statistics (6)** Draw and interpret box plots. (14.1 - 14.3	**Probability(6)** Draw and use tree diagrams without replacement. Use two-way tables to calculate conditional probability	**Probability(6) (contd)** 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)** Find the area of a triangle and a segment of a circle. Use the sine rule to solve 2D problems. (13.5)	**Unit 13 More Trigonometry(6)** . Use the cosine rule to solve 2D problems.(13.6) Solve bearings problems using trigonometry. (13.6	**Unit 13 More Trigonometry(6)** Use the cosine rule to solve 2D problems. Solve bearings problems using trigonometry. (13.6	**Unit 1.1(Numbers)** Unit 1.1 Number problems and solving. Unit 7.7 Volume and surface area of cones and frustum	**Unit 8 Transformations** .Revision on Transformations, Loci,Bounds.	**Revision of Year 9 Topics** . . Reision of topics from Unit 1-Unit 9	**Revision(12)** Reinforce all the concepts taught and discuss the worksheets 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	
Term 1 - Block 1	**Unit 13More Trigonometry(7)** Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems	**More Trigonometry(contd) (3)** Solving problems in 3D	**More** Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5	**Unit19Proportion and Graphs(6)** Translating, Reflecting and Stretching graphs of functions	**Unit 13 More Trigonometry(6)** Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation	**Unit6Graphs(5)** D/T, V/T and More real life graphs	**Unit 19 Proportion and Graphs(8)** Calculate the gradient of a tangent at a point, Estimate the area under a non linear graph. Assessment 3	
Term 1 - Block 2	**Unit 15 Equations and graphs(5)** 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 Statistics(5)** 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 Algebra(5)** Algebraic fractions, surds, solving algebraic fraction equations , functions	**Unit11Multiplicative Reasoning(5)** Growth, decay, compound measures, ratio and proportion	**Unit 7Area and Volume (5)** Prisms, circles, sectors of circles, cylinders and spheres, pyramids and cones	**Revision** Reinforcing all the concepts done and discussion of past papers.	

YEAR 11	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2 - Block 1	**Unit16Circle Theorems(5)** To prove and apply all the circle theorems	**Unit18Vectors and Geometric Proof(5)** 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 Congruence(5)** Similar , Congruent triangles,	**Similarity and Congruence(5)** similarity in 3D shapes. Assessment 2	**Unit3Interpreting and representing data (5)** Time series, scatter diagrams, line of best fit, averages and range	**Unit8Transformation and** Reflection, Translation, enlargement and Rotation, Bearings and scale drawings	***Transformation and Constructions*** Constructions and loci
Term 2 - Block 2	**Revision** Reinforcing all the concepts taught. Disussion of sample papers and mock papers.							

YEAR 12 LONG TERM PLAN with CURRICULUM STANDARDS

Term 1 - Block 1

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Algebraic Expressions(3)	**Quadratics(3)**	**Quadratics(1) &**	**Equations and inequalities(3)**	**Graphs and Transformations (3)**	**Graphs and Transformations (2) & Straight**	**Straight Line Graphs(2) &**	**Cirlces(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 equations	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 circle.	Intersection of straight lines and circles, Use tangent and Chord Properties, Circles and triangles.
	Data collection(3)	**Measures of location and spread(3)**	**Measures of location**	**Measures of location and spread(3)**	**Representation of data(3)**	**Representation of data(3)**	**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.

Term 1 - Block 2

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Algebraic Methods(3)	**Algebraic Methods(1) & Binomial**	**Binomial Expansion(2)**	**Trigonometric Ratios(3)**	**Trigonometric Identities and**	**Trigonometric Identities and Equations(3)**	**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 Distributions(3)**	**Statistical Distributions(3)**	**Statistical Distributions(3)**	**Revision**	**Revision**
	Calculating Probabilities and Venn Diagrams.	Mutually exclusive and Independent events.	Tree diagrams and Conditional Probability	Probability Distributions	Binomial Distribution	Cumulative Probabilities		

Term 2 - Block 1

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Vectors(3)	**Vectors(2) & Differentiation(1)**	**Differentiation (3)**	**Differentiation (3)**	**Differentiation (3)**	**Integration(3)**	**Integration(3)**	**Integration(3)**
	Vector notation, Representing as column vectors, Magnitude and direction and Position vectors.	Solving geometric problems, modelling with vectors & Gradient of curve, Finding the derivative, Differentiating xn	Differentiating quadratics, functions with two or more terms, Tangents and normals	Increasing and decreasing functions, Second order derivatives, Stationary points, Maximum and minimum points Modelling with differentiation.	Sketching gradient functions, Modelling with differentiation.	Integrating xn, 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 Testing(3)	**Hypothesis Testing(3)**	**Hypothesis Testing(3)**	**Regression, Correlation and**	**Regression, Correlation and**	**Conditional Probability(3)**	**Conditional Probability(3)**	**Conditional Probability(3)**
	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

Term 2 - Block 2

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Exponentials and Logarithms(3)	**Exponentials and Logarithms(3)**	**Exponentials and**	**Algebraic Methods(3)**	**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 Probability(3)	**Normal Distribution(3)**	**Normal Distribution(3)**	**Normal Distribution(3)**	**Normal Distribution(3)**	**Normal Distribution(3)**	**Revision**	**Revision**
	Conditional Proabilities in Tree Diagrams.	Understanding normal distribution and its characteristics and Finding probabilities for normal distribbutions.	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
	Algebraic Methods(2) & Functions and graphs(1)	**Functions and graphs(3)**	**Functions and**	**Functions and graphs(2) &**	**Sequences and series(3)**	**Sequences and series(3)**	**Trigonometric Functions(3)**	**Trigonometric Functions(1) & Trigonometry**

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1 - Block 1	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 Trigonometric identities.	Inverse trigonometric functions & Using Angle Addition Formula and Double angle formula.
	Modelling in Mechanics(3)	**Constant Acceleration(3)**	**Constant**	**Forces and Motion(3)**	**Forces and Motion(3)**	**Forces and Motion(3)**	**Variable Acceleration(3)**	**Variable Acceleration(3)**
	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 modelling(3)**	**Trigonometry and modelling(3)**	**Parametric**	**Parametric Equations(3)**	**Differentiation (3)**	**Differentiation(3)**	**Revision**	**Revision**
	Solving trigonometric equations. Simplifying a cos x ± 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 funtions. Chain rule, Product rule, Quotient rule	Parametric Differentiation, Implicit Differentiation using second derivatives, Rates of change.		
	Moments(3)	**Moments(3)**	**Moments, Forces(2) and**	**Forces and Friction(3)**	**Forces and Friction(2),**	**Projectiles(3)**	**Projectiles(3)**	**Projectiles(1) & Module Test(2)**
	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 Methods(3)**	**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 Forces(3)	**Applications of Forces(3)**	**Applications of**	**Applications of Forces(3)**	**Further Kinematics(3)**	**Further Kinematics(3)**	**Further Kinematics(3)**	**Further Kinematics(1) & Module Test(2)**
	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 projectiles.	Vector Methods and projectiles and Variable Acceleration in one dimension.	Variable Acceleration in one dimension and Differentiating Vectors.	Integrating Vectors & Module Test.

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						