MATHS LONG TERM PLAN 2021-2022

YEAR 1 LONG TERM PLAN with CURRICULUM STANDARDS

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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]	Comparing numbers/ Ordering objects	Number and Place Counting and writing numbers to 20 Tens and ones.	Number and Place Counting one more/ less Comparing numbers of objects/Ordering objects and numbers to 20	number bonds.	Addition and Finding the whole - adding together/Finding a part.	Addition and Finding and making number bonds/ Finding addition facts/ Solving word problems – addition.
Term 1- Block 2	Addition and Subtraction – how many are left/ breaking apart(1&2)	Addition and Subtraction – counting back/ finding the difference/ Solving word problems – subtraction.	Geometry:shape Naming 2D shapes /Making patterns with shapes.	Recognise and name common 3-D shapes.	Addition and Solving word problems – addition and subtraction	Addition and Subtracting tens and ones/Solving word and picture problems – subtraction.	Reinforce all the c	oncepts taught and ksheets for first ive exam
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Number and Place Counting to 50 Tens and ones.	Number and Place Comparing numbers of objects/ numbers Ordering objects and numbers.	Number and Place Counting in 2s/ Counting in 5s/ solving word problems.	Measurement- Non-standard units of measure -length and height/comparing length and height/ solving word problems.	Measurement- Comparing and measuring weight/Comparing and Measuring capacity Solving word problems .	Number – Counting in 10s, 5s and 2s Making equal groups/Sharing equally.	Number – Making doubles/half Solving word problems – multiplication.	Number – Making equal groups /Sharing equally /Solving word problems – division.
Term 2- block 2	Number fractions Finding halves and quarters/halves and quarters- word problems	Geometry-position and Describing turns/positions/Days of the week(Using before and after)/Using a calendar.	Measurement/Tim Telling time to the hour/to the half hour.	Writing time/ Comparing time/Solving word problems – time.	_	Number and Place Counting to 100 /Exploring number patterns/Partitioning numbers /Comparing numbers /Ordering numbers/Bonds to 100.	Reinforce all the c discuss the workshee	ion(12) concepts taught and ets including revision ics .
	YEAR	2 LONG	TERM P	LAN wit	h CURRIC	CULUM ST	ANDARD	S
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
1	Number – Numb	er and Place value (10)	Number – Addition a	nd Subtraction-1 (12)	Number – Additio	n and Subtraction-2 (12)	Measurement	s – Money (12)

Block 2 Term 1- Block	digit number. Compa use <, > and = signs. and 10s forward and Number - Multiplication Calculate mathematic multiplication and di	n and Division–1 (12) cal statements for vision within the	objects, pictorial representable, including: a large state of the second state of the	resentations, and a 2-digit number and mbers. n and Division-2 (12) lving multiplication naterials, arrays,	using concrete objects and pictorial and pence (p); combine amou a particular value and solve we digit and 2-digit numbers. Statistics (12) Revision(12)			ine amounts to make d solve word
Term 1- Bl	multiplication tables 2,5 and 10 and write them using the multiplication (×), division (and equals (=) signs.		repeated addition, mental methods, and					
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Measurement - Lenght and Heigth (6) Choose and use appropriate standard units to estimate and measure length/ height in any direction (m/cm).		Geometry – Proper Identify and describe 2D/ 3D shapes, inclusides/ vertices/ faces symmetry. Making p 2D/ 3D shapes.	ding the number of and lines of	halves and quarters.		Geometry – Describe position, direction and turns in terms of right angles for quarter, half and three-quarter turns	
Term 2- Block 2	Number – addition a Solve problems invol- operations, using con- representations, array number facts, includi- in contexts.	lving all the four acrete objects, pictorial ys, mental methods,	Measurement - Time Telling and writing to half hour and to the o time to 5 minutes. Fi comparing durations start time and end time	me to the hour, the puarter hour. Telling nding and of time. Finding the	estimate and measure (°C); capacity(litres/r	ght, volume and operators of the mass (kg/g); temperature only. Compare and order by and record the results	Revision(12) Reinforce all the cordiscuss the workshed topics for final example.	ets including revision
	YEAR	3 LONG	TERM P	LAN wit	h CURRIC	CULUM ST	ANDARD	S
YEAR 3								
	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	Number – Number and F Recognise the place digit number. Identify using different representations	Place value (12) value of each digit in a 2- y and represent numbers	Number – Addition and	Subtraction–1 (12) igit numbers using orial mentally. Solve as involving one or	Number – Addition and S Add and subtract nur digits, using formal v	Subtraction–2 (12) mbers with up to three vritten methods of d subtraction. Find the on and use inverse	Number – Multiplication Recall and use multi division facts for the multiplication tables problems involving	pn and Division–1 (12) plication and a 3, 4 and 8 . Solve related word

Tern	mental and progressi methods.	ing to formal written		•		~		
YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	m/cm/mm. Measure	add and subtract lengths u	-	fractions with small fractions, and fraction subtract fractions wi	• •	re and order unit ominators. Add and tor within one whole.		easing accuracy to the rd and compare time minutes and hours; as o'clock, am/pm,
Term 2- Block 2	Measurement - Tell and write the time from an analogue clock, including using Roman numerals - 12 and 24 hour clocks. Compare durations of events.	Recognise angles as a property whether angles are great horizontal and vertical lines. Draw 2D shapes a materials; recognise 3D describe them.	roperty of shape. Iden ter than or less than a lines and pairs of perpend and make 3D shapes u	tify right angles; and right angle. Identify endicular and parallel sing modelling	the units kg/g and vo	dd and subtract mass in lume/capacity in the units ord problems involving	Revision(12) Reinforce all the condiscuss the workshe topics for final example.	ets including revision
YEAR 4	YE/	AR 4 LONG	TERM P	LAN with	CURRICU	JLUM STAN WEEK 6	IDARDS WEEK 7	WEEK 8
	Number & Place			Addition & Subtr		Measurement - Lengt		Multiplication &
	Count in multiples of 6, 7, 9, 25 and 1,000 Find 1,000 more or less than a given	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s)	Solve number and practical problems that involve all of the above and with increasingly large	Add and subtract numbers with up to 4 digits using the formal written methods of	solve addition and subtraction two-step	Convert between different units of measure (cm-m/ m-km)	Measure and	Recall multiplication and division facts for multiplication tables up to 12×12

ock 1	number Count backwards through 0 to include negative numbers	numbers beyond 1,000 Identify, represent and estimate numbers using different representations Round any number to the nearest 10, 100 or	positive numbers Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value.	columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation	and methods to use and why.		in centimetres and metres	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
	Multiplication &	Division (12)		Fractions (12)		Fractions - Decimals	Revision (12)	
		,	Area (6)		,	1 (6)		
Term 1- Block 2	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	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Find the area of rectilinear shapes by counting squares	diagrams, families of common equivalent fractions Count up and down in hundredths; recognise that hundredths arise	increasingly harder fractions to calculate quantities, and fractions to divide quantities,	Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to 1/4; 1/2; 3/4	Reinforce all the confirst summative exar	
YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
		nals 2 (12)		t - Money (12)		ent - Time (12)		ics (12)
	Find the effect of	1 *	Estimate, compare	· •	Read, write and	Solve problems	Interpret and	Solve comparison,
H	dividing a one- or	the same number of	and calculate	and calculate	convert time	involving converting	present discrete and	sum and difference
_	two-digit number by	1 1	different measures,			from hours to minutes,	continuous data	problems using
Blc	10 and 100,	1 *			_	minutes to seconds, years		information
J.	identifying the	I	pounds and pence	pounds and pence.	24-hour clocks	to months, weeks to days	Igraphical methods,	presented in bar

Term 2	the answer as ones, tenths and hundredths	Solve simple measure and money problems involving fractions and decimals to 2 decimal places.		Round amounts, Solve word problems on money				charts, pictograms, tables and other graphs.
	Р	roperties of Shape (1	8)	Position & Direct	ion(12)	Review -	Revisi	on (12)
Term 2- block 2	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	Identify acute and obtuse angles and compare and order angles up to 2 right angles by size	Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry.	Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down	and draw sides to complete a given polygon.	Reinforce - Statistics, properties of shape, position & direction	Reinforce all the confinal exam	cepts taught for the
				ap/down				
VEAR 5				PLAN with		LUM STAND		WEEK 8
YEAR 5	WEEK 1	WEEK 2	WEEK 3	PLAN with	WEEK 5	WEEK 6	WEEK 7	WEEK 8
				PLAN with				WEEK 8 Multiplication and Division (5)
Term 1- Block 1	Number:Place value (5) •Read, write, order and compare numbers to at least 1,000, 000 and determine the value of each digit	WEEK 2 Number: Place value	Addition and Subtraction (5) •Add and subtract whole numbers with more than 4 digits, including using formal written	PLAN with WEEK 4 Addition and Subtraction (5) •Solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why.	WEEK 5 Statistics:Graphs and Tables (5) •Solve comparison, sum and difference problems using	WEEK 6 Statistics:Graphs and	WEEK 7 Multiplication and Division (5) •Identify multiples and factors, including finding all factor pairs of a number and common factors of	Multiplication and Division (5) •Multiply and divide whole
'm 1- Block 1	Number:Place value (5) •Read, write, order and compare numbers to at least 1,000, 000 and determine the value of each digit	Number: Place value (5) •Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including	Addition and Subtraction (5) •Add and subtract whole numbers with more than 4 digits,including using formal written methods (columnar addition and Measure:	PLAN with WEEK 4 Addition and Subtraction (5) •Solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use	WEEK 5 Statistics:Graphs and Tables (5) •Solve comparison, sum and difference problems using information presented in a line graph Fractions (5)	WEEK 6 Statistics:Graphs and Tables (5) •Complete, read and interpret information in tables, including	WEEK 7 Multiplication and Division (5) •Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers.	Multiplication and Division (5) •Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000

Term 1- Block	method, including long multiplication for two-digit numbers	remainders appropriately for the context •Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	(including squares) including using	standard units, square centimetres (cm ²) and square metres (m ²) and calculate the area of rectilinear shapes.	•Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	mathematical statements > 1 as a mixed number.		
YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Fractions (5)	Fractions (5)	Fractions (5)	Decimals and Percentages (5)	Decimals (5)	Decimals (5)	Decimals (5)	Geometry: Properties of shape (5)
Term 2- Block 1	•Add and subtract fractions with the same denominator and denominators that are multiples of the same number	•Add and subtract mixed fractions •Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams •Find fractions of an amount	numbers by whole	per cent relates to "number of parts per 100", and write	•Read and write decimal numbers as fractions •Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	nearest whole number	•.Solve problems involving 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 (°)
	Geometry: Properties of shape (5)	Geometry: Properties of shape (5)	Geometry: Position and Direction (5)	Geometry: Position and Direction (5)	Measure: Converting units (5)	Measure: Volume and capacity (5)	Revis	ion(12)
Term 2- Block 2	and 1 whole turn (total 360°)	representations •Distinguish between regular and irregular polygons based on reasoning about equal	•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.	•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		oncepts taught and eets for final exam.

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 &	Four Operations: Addition, Subtraction, Multiplication &	Fractions (5)	Fractions (5)	Fractions (5)	Geometry: Position and Direction (5)
Term 1- Block 1	•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	 Perform mental calculations, including with mixed operations and large numbers. Solve addition and subtraction multi-step problems in contexts, deciding which 	•Multiply multidigit numbers up to 4 digits by a two-digit whole number using the formal written method of	•Use their knowledge of the order of operations to carry out calculations involving the 4 operations •Solve problems	•Use common factors to simplify fractions; use common multiples to express fractions in the same denomination •Compare and order fractions, including fractions >1	numbers, using the concept of equivalent fractions	•Multiply simple pairs of proper fractions, writing the answer in its simplest form •Divide proper fractions by whole numbers	•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.
Term 1- Block 2	•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.	decimal places by whole numbers.	Percentage (5) •Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	•Find percentages of an amount.	•Express missing number problems algebraically	•Use simple formulae	Reinforce all the discuss the wor	concepts taught and rksheets for first ive exam
YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8

	Algebra (5)	Algebra (5)	Meaurement: Converting units (5)	Measurements: Area, Perimeter & Volume(5)	Measurements: Area, Perimeter & Volume(5)	Measurements: Area, Perimeter & Volume(5)	Ratio and Proportion (5)	Ratio and Proportion (5)
Term 2- Block 1	Generate and describe linear number sequences.	•Find pairs of numbers that satisfy an equation with two unknowns.	•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 larger unit, and vice versa, using decimal notation to up to 3 decimal places. •Convert between miles and kilometres		•Calculate the area of parallelograms and triangles.	for area and volume of shapes •Calculate, estimate and compare volume of cubes and cuboids using standard units, including	1	•Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
	Ratio and Proportion (5)	Statistics (5)	Statistics (5)	Geometry: Properties of shape(5)	Geometry: Properties of shape(5)	Geometry: Properties of shape(5)	Revisi	 ion(12)
2	•Solve problems involving similar shapes where the scale factor is known or can be	•Interpret and construct pie charts and line graphs and use these to solve problems	•Calculate and interpret the mean as an average.	•Draw 2-D shapes using given dimensions and angles. •Ma6/3.2b	•Compare and classify geometric shapes based on their properties and sizes and find	•Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice	discuss the worksh	oncepts taught and neets for final exam

Term 1- Block 2	Angles and parallel lines, Use the properties of triangles to work out unknown angles (5.1 and 5.2)	Unit5-Angles and shapes(5) Quadrilaterals, Interior and exterior angles of a Polygons, Geometrical proofs(5.3 and 5.4)	Unit1- Analysing and Displaying data(5) Compare the sets of data using averages and range, Grouped data.(1.2 and 1.3)		_	Unit9-Perimeter,area and volume(5) Surface area & Volume of cube, cuboid and triangular prism.(9,4 and 9.5)	Reinforce all the c	concepts taught and rksheets for first ive exam
Term 1- Block 1	LCM using venn diagram. Using negative numbers. (2.1 and 2.2)	Squares and square roots. More powers and roots. (2.4 and 2.5)	expressiosn. (3.1 and 3.2)	STEM:Using formulae. Brackets and powers. (3.3, 3.4 and 3.5)	Factorising expressions. Solving one-step equations. (3.6 and 7.1)	Solving two-step equations. More complex equations. (7.2 and 7.3)	subtracting fractions. Fractions, decimals and percentages. (4.1, 4.2 and 4.3)	Multiplication and division of fraction, Working with mixed numbers.(4.4 and 4.5)
YEAR 7	WEEK 1 Unit2-Number Skills(5)	WEEK 2 Unit2-Number Skills(5)	WEEK 3 Unit3-Equations, functions and	WEEK 4 Unit3-Equations, functions and	WEEK 5 Unit3-Equations, functions and	WEEK 6 Unit7-Equations(5)	WEEK 7 Unit4-Fractions(5)	WEEK 8 Unit4-Fractions(5)
YEAR		TERM PLAN		I	STANDAR			
Term 2- block	found.			D shapes, including making nets.	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.			

	Unit3-3D solids(5) (delta2)	Unit6-Decimals(5)	Unit6-Decimals(5)	Unit8-Multiplicative Reasoning(5)	Unit8-Multiplicative Reasoning(5)	Unit10-Sequences and graphs(5)	Unit10-Sequences and graphs(5)	Unit10-Sequences and graphs(5)
Term 2- Block 1	circle,Area and perimeter of quarter	Ordering decimals, Rounding decimals, Addition and subtraction of decimals. (6.1, 6.2 and 6.3)	Multiplying decimals, Division of decimals and recurring decimals. Fractions, decimals and percentage. (6.4, 6.5 and 6.6)	Writing ratios, Share a quantity in 2 or more parts in a given ratio, Proportion. (8.2, 8.3 and 8.4)	Direct and inverse proportion/Using the unitary method. (8.5 and 8.6)	Work out the term to term rule in the sequences, The nth term. (10.1 and 10.2)	Pattern sequences. Coordinates and line segments. (10.3 and 10.4)	Coordinates and line segments, Straight line graphs parallel to the x-axis. (10.4 and 10.5)
01	Unit8- Probability(5) (delta2)	Unit8-Probability(5) (delta2)	Unit7- Constructions(5) (delta2)	Unit7- Constructions(5) (delta2)	Unit 5- Transformations(5) (delta2)	Unit 5- Transformations(5) (delta2)	Rev	rision
Term 2- block 2	^	Experimental probability, Probability diagrams. (8.4 and 8.5)	Accurate drawings, Construct triangles using a ruler and compasses(SAS, SSS, ASA) (7.1 and 7.2)	Construct perpendicular bisector and Angle bisector using a ruler and compasses. (7.3 and	Describe and carry out Translations/ Describe and carry out Reflections/ Describe and carry out rotations. (5.1	Enlarge a shape and desribe an enlargement. Enlargement s a shape using negative scale factor and fractional scale	discuss the workshe	concepts taught and ets including revision pics
				7.4)	and 5.2)	factor.(5.3 and 5.4)		
YEAR 8	WEEK 1	EAR 8 LON	IG TERM WEEK 3	,	,	factor.(5.3 and 5.4) LUM STAND WEEK 6	ARDS WEEK 7	WEEK 8
1- Block 1	WEEK 1 UNIT 1: Factors and powers (Delta2)- Revision(5) Prime factor decomposition of a number. To find HCFand LCM using	WEEK 2 UNIT 1: Factors and powers (Delta2)- Revision(5) To work out laws of indices for positive powers. To use laws of	I	PLAN with WEEK 4 UNIT 2:WORKING	CURRICU WEEK 5	WEEK 6 UNIT 2:Working with powers(Delta 2)(5) Factorise an algebraic expressions. To substitute	WEEK 7 UNIT 3: Inequalities, equations and formulae (Delta 3)(5) To construct and	

Term 1- Block 2	To work out an original quantity before percentage increase and decrease. To calculate percentage change.	of repeated percentage changes. Accurate drawings, Construct triangles.	perpendicular bisectors.Constructi	Draw locus.Use loci to solve problems. Surface area of prisms		Surface area of Cylinders, Volume of Cylinders and Pythagoras Theorem.		ets for first luding revision Jnit 8 -Multiplicative and Unit 10 -
YEAR 8	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2- Block 1	Work out the length	Unit 10:Graphs(Delta 2)(5) Plotting linear graphs,	2)(5) y=mx+c, Parallel and	UNIT 4:Real life graphs (5) Draw and interpret Distance-time graphs, Interpret real life graphs.		UNIT 5:Transformations(5) To enlarge a shape, To describe an enlargement. To enlarge a shape using negative and fractional scale factor.		Unit 9:Scale drawing and Measures(5) Scales and ratios,Congruent and similar shapes.
Term 2- block 2	Unit 9:Scale drawing and Measures(5) To use similiarity to solve problems in 2D shapes	Equations(Delta 3)(5) Solve a pair of Simultaneous Equation	Revision + Estimating probability,	UNIT 4: Collecting and Analysis data(Delta 3)(5) To draw stem and leaf diagrams.To construct frequency polygons.	from a grouped	Revision of year 7 Topics - Delta 1(5) Unit 1 - Analyzing and displaying data(1.2 -1.5) ,Unit 5-Angles and shapes (5.1-5.4)	Revision(12) Reinforce all the condiscuss the workshee	-
	1	EAR 9 LON	G TERM I	PLAN with	CURRICU	LUM STANDA	ARDS	
YEAR 9	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1- Block 1	Number (6) Place value and estimating, HCF and LCM. Calculating with powers (indices).	and fractional indices. To write a number in	numbers in standard form. Understand the difference between rational	To solve sums	Algebra Contd (6) To solve equations involving brackets and numerical fractions.To substitute numbers into formulae	Algebra Contd (6) To rearrange formulae. To solve sums on linear sequences. To solve problems using non - linear sequences. To work out terms in Fibonacci like sequences.	squares.To factorise quadratics of the	Fractions, ratio and To add subtract multiply divide fractions and mixed numbers. To compare ratios. To find quantities using ratios.

	percentages Contd (6)	Fractions,ratio and percentages Contd (6) To solve real - life	Interpreting and representing data Contd (6) Estimate the mean	Angles and Trigonometry (6) To use angle	Angles and Trigonometry (6) To solve problems	Angles and Trigonometry Contd (6) To use trignometric	Revision (12)	cents taught and
Term 1- Block 2	currencies and measures.To use	problems involving percentages. Calculate using fractions, decimals	and range from a grouped frequeency table. To find the	properties of triangles, quadrilater al and exterior angle of triangle. To calculate the sum of the interior angles and exterior angles of a polygon.	involving Pythagoras theorem.	ratios to find the lengths and angles in a right angled triangle. To find angles of elevation and depression.	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
	Interpreting and representing data Contd (6)	Interpreting and representing data Contd (6)	Interpreting and representing data Contd (5)+ Assessment	Graphs (6)	Graphs Contd (6)	Graphs Contd (6)	Graphs Contd (6)	Area and volume (6)
Term 2- Block 1	stem and leaf	To plot and interpret time series graphs. To use trends to predict what might happen in the future. Moving Averages		To find the gradient and y intercept from a linear equation. To rearrange an equation into the form y=mx+c. To plot graphs with equations ax+by+c.	of a line given its	To understand velocity - time graphs. To find acceleration and distance from velocity - time graphs. To draw and iterpret real - line linear graphs.		volumes and surface areas of prisms
	Area and volume	Area and volume	Transformations	Transformations	Probability (6)	Equations and	Revision(12)	
Term 2- block 2	circles.To calculate arc lengths,angles and areas of sectors of circles.	cylinder and a sphere. To calculate volume and surface area of a pyramids and cones.	Rotation.Enlarge shapes by fractional and negative scale factors about a centre of enlargement.	bearings. Construction of angle bisector and perpendicular bisector. To draw a locus. Use loci to solve problems.	To find probabilities of mutually exclusive events. Experimental Probability.Independent events.To draw and use probability tree diagrams.	To solve simple simultaneous equations algebraically and graphically.	Reinforce all the condiscuss the revision value of the final exam	

YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Unit 2Algebra (6))	linedualities(b)	Unit 9 Equations and inequalities(6)(cont	Unit 15 Equations and Graphs(6)	Equations and inequalities (Continue)(6)	Equations and inequalities (Continue)(6)	Unit 8.5 Bearings. Revision on Unit 5.4-5.7	Unit 13 More Trigonometry(6)
Term 1- Block 1	.Solve problems using geometric sequences. Work out terms in Fibonnaci-like sequences. Find the nth term of a quadratic sequence (2.6).	quadratic functions. Find approximate solutions to quadratic equations	Solve quadratic equations by factorisation, use the quadratic formula and by completing the square. (9.1 - 9.3)	Recognise and draw quadratic functions. Find approximate solutions to quadratic equations graphically.(15.3-15.4)	Solve simultaneous equations algebraicallyy and graphycally Solve quadratic simultanious. (9.4 - 9.6,15.2)	Solving linear inequalities and shading region. Solving quadratic inqualities. (9.7, 15.2)	Draw and use scales on maps and scale drawings. Solve problems involving bearings .Revision on Pythagoras theorm and Trigonometry	Find the area of a triangle and a segment of a circle. Use the sine rule to solve 2D problems. (13.5)
Term 1- Block 2	(Continued) (6) Use the cosine rule to solve 2D problems. Solve bearings	Unit 12 Similarity and congruence(6) 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)	ue)(6) To use the ratio of corressponding sides to work out scale factors. To find missing lengths on	congruence (Continue)(6) 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	and from a point. Prove and use facts about angles subtended at the centre and the circumference,	Circle theorems (Continue) (6) 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.	Revision(12) Reinforce all the cordiscuss the workshed summative exam	
YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Vectors and geometric proof (6) Understand and use		Vectors and geometric proof (6)	Understand simple	Further statistics (6) Work out the	Use the product rule for	Probability(6) Work out the	Probability(6) (contd) Draw and use tree
lock 1	vector notation. Calculate using vectors and represent the	vectors. Use the resultant of two vectors to solve vector problemsExpress points	Prove points are	random sample and stratifi ed sample. Draw and interpret cumulative	median, quartiles and interquartile range from a cumulative	finding the number of outcomes for two or more events. Identify mutually	expected results for experimental and theoretical probabilities.	diagrams without replacement. Use two-way tables to calculate

Term 2- B	solutions graphically. Calculate the resultant of two vectors.	as position vectors	geometric problems in two dimensions using vector methods. Apply vector methods for simple geometric proofs.	frequency tables.	frequency diagram. Draw and interpret box plots. (14.1 - 14.3	exclusive outcomes and events.	results with theoretical expected values to decide if a game is fair.	-
	Unit 8.1 3D solids	Unit 7 Area and	Unit 8 Revision on	Unit 6 Revision on	Multiplicative	Multiplicative		
	8.8 Loci	volume(6)	transformations	Graphs(6)	reasoning(6)	reasoning(6)	Revision(12)	
block 2	Draw plans and elevations of 3D solids. Draw a locus.	Calculate volume and surface area of cylinders, spheres, pyramids and	· · · · · · · · · · · · · · · · · · ·	Draw and interpret distance–time graphs. Average speed from	Find an amount after repeated percentage changes.	Solve problems involving compound measures. Use relationships	Reinforce all the concepts discuss the worksheets included topics of year 9 [Unit 1- U exam	cluding revision
blo	Use loci to solve	cones(7.6,7.7)	combinations.(8.2-	a distance–time	rates.Convert metric	1 *	exam	
2-	problems.	Concs(7.0,7.7)	8.4)	graph.	speed measures.	Use direct and indirect		
Term 2	r · · · · · · ·			Velocity–time	Compound	proportion		
Ĕ				graphs.	measures.			
YEAR	11 LONG	TERM PLA	N with CU	 	M STANDA	RDS		
YEAR YEAR 11	11 LONG	TERM PLA WEEK 2	N with CU	JRRICULUN WEEK 4	M STANDA WEEK 5	RDS WEEK 6	WEEK 7 AND W	VEEK 8
		WEEK 2 More	WEEK 3 More	WEEK 4 Unit19Proportion	WEEK 5 More	WEEK 6 Unit6Graphs(5)	Proportion and Graphs(8	(8)
	WEEK 1	WEEK 2	WEEK 3 More	WEEK 4 Unit19Proportion	WEEK 5	WEEK 6 Unit6Graphs(5)		(8)
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in	WEEK 2 More	WEEK 3 More Graphs of sine, cosine and tangent	WEEK 4 Unit19Proportion Translating, Reflecting and	WEEK 5 More Reflecting, translating and	WEEK 6 Unit6Graphs(5)	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations,	WEEK 2 More	WEEK 3 More Graphs of sine, cosine and tangent functions.	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of	WEEK 5 More Reflecting, translating and stratching	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas	WEEK 2 More	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1	WEEK 4 Unit19Proportion Translating, Reflecting and	WEEK 5 More Reflecting, translating and stratching Trigonometric	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule,	WEEK 2 More Solving problems in 3D	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and	WEEK 2 More Solving problems in 3D	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations.	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un	(8) a tangent at a nder a non
	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric	WEEK 2 More Solving problems in 3D	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and	WEEK 2 More Solving problems in 3D	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations.	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems	WEEK 2 More Solving problems in 3D	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation	WEEK 6 Unit6Graphs(5) D/T, V/T and More real	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un linear graph. Assessment 3	(8) a tangent at a nder a non
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems Unit 15 Equations	WEEK 2 More Solving problems in 3D	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions Unit 17More	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation	WEEK 6 Unit6Graphs(5) D/T, V/T and More real life graphs Unit 7Area and Volume	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un linear graph. Assessment 3	a tangent at a nder a non 3
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems Unit 15 Equations	WEEK 2 More Solving problems in 3D Unit 14 Further	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions Unit 17More	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation Unit11Multiplicati	WEEK 6 Unit6Graphs(5) D/T, V/T and More real life graphs Unit 7Area and Volume	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un linear graph. Assessment 3 Revision	a tangent at a nder a non 3
Term 1- Block 1	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems Unit 15 Equations To find an accurate	WEEK 2 More Solving problems in 3D Unit 14 Further Sampling, cumulative	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5 Further Drawing and	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions Unit 17More Algebraic fractions,	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation Unit11Multiplicati Growth, decay,	WEEK 6 Unit6Graphs(5) D/T, V/T and More real life graphs Unit 7Area and Volume Prisms, circles, sectors of	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un linear graph. Assessment 3 Revision Reinforcing all the concept	a tangent at a nder a non 3
YEAR 11	WEEK 1 Unit 13More Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems Unit 15 Equations To find an accurate root of a quadratic	WEEK 2 More Solving problems in 3D Unit 14 Further Sampling, cumulative	WEEK 3 More Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5 Further Drawing and interpreting	WEEK 4 Unit19Proportion Translating, Reflecting and Stretching graphs of functions Unit 17More Algebraic fractions, surds, solving	WEEK 5 More Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation Unit11Multiplicati Growth, decay, compound	WEEK 6 Unit6Graphs(5) D/T, V/T and More real life graphs Unit 7Area and Volume Prisms, circles, sectors of circles, cylinders and	Proportion and Graphs(8) Calculate the gradient of a point, Estimate the area un linear graph. Assessment 3 Revision Reinforcing all the concept	a tangent at a nder a non 3

Term 1- B	- revision unit 9 and unit 15		comparing and describing population Assessment revision units - 1,2,4,					
YEAR 11	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Unit16Circle	Unit18Vectors and	Unit10Probability(Unit12Similarity	Similarity and	Unit3Interpreting and	Unit8Transformati	Transformation
	To prove and apply	Vector Arithmetic,	Mutually exclusive,	Similar, Congruent	similarity in 3D	Time series, scatter	Reflection,	Constructions and
	all the circle	Parallel and collinear	Independent events,	triangles,	shapes. Assessment	diagrams, line of best fit,	Translation,	loci
Ţ	theorems	vectors, Solving	Experimental		2	averages and range	enlargement and	
Block 1		_	probbaility,				Rotation, Bearings	
. B		Assessment 1	conditional				and scale drawings	
n 2.			probability, venn					
Term 2-			diagrams and set					
H			notation					
	Revision							
3 k 2	Reinforcing all the c	oncepts taught.						
block 2	~	papers and mock papers.						
2- k	·							
II.								
Teı								
	12 LONG	TERM PLA	N with CU	IRRIGULUM	И STANDA	KDS .		
EAR		TERM PLA					WEEK 7	WEEK 8
EAR	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
EAR	WEEK 1 Graphs and	WEEK 2 Graphs and	WEEK 3 Straight Line	WEEK 4 Cirlces(3)	WEEK 5 Algebraic	WEEK 6 Algebraic Methods(1)	Binomial	WEEK 8 Trigonometric
EAR	WEEK 1 Graphs and Sketching cubic	WEEK 2 Graphs and Translation of graphs,	WEEK 3 Straight Line Parallel and	WEEK 4 Cirlces(3) Intersection of	WEEK 5 Algebraic Algebraic fractions,	WEEK 6 Algebraic Methods(1) Methods of proof &	Binomial Solving binomial	
EAR	WEEK 1 Graphs and Sketching cubic graphs, Sketching	WEEK 2 Graphs and Translation of graphs, Stretching and	WEEK 3 Straight Line Parallel and Perpendicular lines,	WEEK 4 Cirlces(3) Intersection of straight lines and	WEEK 5 Algebraic Algebraic fractions, Dividing	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle,	Binomial Solving binomial problems, Binomial	Trigonometric
EAR	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs,	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs,	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area,	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and	Binomial Solving binomial problems, Binomial Estimation &	Trigonometric Area of triangle, Solving triangle problems, Graphs of
EAR	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor theorem,	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle,	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule, Sine	Trigonometric Area of triangle, Solving triangle
YEAR 12	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines &	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord Properties, Circles	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and	Binomial Solving binomial problems, Binomial Estimation &	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent,
YEAR 12	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor theorem,	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule, Sine	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming
EAR 12	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines &	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord Properties, Circles	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor theorem,	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule, Sine Rule	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming trigonometric
7EAR 12 (FAR 12)	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and Perpendicular	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord Properties, Circles	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor theorem,	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule, Sine Rule	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming
7EAR YEAR 12	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and Perpendicular Bisectors, Equation	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord Properties, Circles	WEEK 5 Algebraic Algebraic fractions, Dividing polynomials, Factor theorem,	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule, Sine Rule	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming trigonometric
PROCK 1	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point of intersection	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and Perpendicular Bisectors, Equation of a circle	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord Properties, Circles and triangles Measures of	Algebraic Algebraic fractions, Dividing polynomials, Factor theorem, Mathematical Proof	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and Binomial Expansion	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule, Sine Rule	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming trigonometric graphs Correlation(3)
7EAR YEAR 12	WEEK 1 Graphs and Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point of intersection Data collection(3)	WEEK 2 Graphs and Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line Measures of location	WEEK 3 Straight Line Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and Perpendicular Bisectors, Equation of a circle Measures of Percentile,	WEEK 4 Cirlces(3) Intersection of straight lines and circles, Use tangent and Chord Properties, Circles and triangles Measures of Variance and	Algebraic Algebraic fractions, Dividing polynomials, Factor theorem, Mathematical Proof Representation of Outliers, Box plots	WEEK 6 Algebraic Methods(1) Methods of proof & Pascal's triangle, Factorial Notation and Binomial Expansion Representation of Histogram with unequal	Binomial Solving binomial problems, Binomial Estimation & Cosine Rule , Sine Rule Correlation(3)	Trigonometric Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming trigonometric graphs Correlation(3)

	sampling, Types of data, Large data set.		standard deviation.	-				
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Trigonometric Angles in all four	Trigonometric	Differentiation(3)	Differentiation(3)	Differentiation(3) Increasing and	Differentiation(3) Sketching gradient	Revision	Revision
1- Block 2	quadrants, Exact value of trigonometrical ratios, Trigonometric identities		Gradient of curve, Finding the derivative, Differentiating x ⁿ	Differentiating quadratics, functions with two or more terms, Tangents and normals	decreasing functions, Second order derivatives, Stationary points, Maximum and minimum points	functions, Modelling with differentiation.		
Term 1.	Probability(3)	Probability(3)	Probability(3)	Statistical	Statistical	Statistical	Revision	Revision
Te	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(3)	Integration(3)	Integration(3)	Integration(3)	Exponentials and	Exponentials and	Exponentials and
?- Block 1	Vector notation, Representing as column vectors, Magnitude and direction and Position vectors.	problems, modelling with vectors	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	Graph of y = e ^x , Exponential modelling, Logarithms,	Laws of logarithms, Solving equations using logarithms.	Working with natural logarithms, Logarithms and non linear data.
Term 2-	Hypothesis	Hypothesis Testing(3)	Hypothesis	Regression,	Regression,	Conditional	Conditional	Conditional
Ter	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
	Algebraic	Algebraic Methods(3)	Radian Measure(3)	Radian Measure(3)	Binomial	Binomial Expansion (3)	Revision	Revision
	Proof by contradiction, algebraic fractions	· · · · · · · · · · · · · · · · · · ·	sector and segment.	Solving trigonometric equations and small angle	Expanding (1+x)^n and (a+bx)^n.	Using partial fraction.		

Block 2				approximation.				
BK	Conditional	Normal	Normal	Normal	Normal	Normal Distribution(3)	Revision	Revision
2-	Conditional	Understanding normal		Finding μ and σ	Approximating a	Hypothesis Testing with		
Term	Proabilities in Tree	distribution and its	distribution function		1.1	the Normal Distribution.		
Te]	Diagrams.	characteristics and	and Standard		Distribution.	ine i tormar Bistrioution.		
•	Diagrams.	Finding probabilities for			Distribution.			
		normal distribbutions.	Distribution.					
		normal distributions.	Distribution.					
		YEAR 13 L	ONG TERM	PLAN with	CURRICUL	UM STANDAR	DS	
YEAR 13	WEEK 1	WEEK 2				WEEK 6	WEEK 7	WEEK 8
	Algebraic	Functions and	Functions and	Functions and	Sequences and	Sequences and series(3)	Radian Massura(3)	Radian Massura(1
	Proof by	Functions and Functions and			 	Sigma Notation,	Radian Measure,	Small angle
	•		_	problems &	_	recurrence relation and	,	approximation.
		mappings, Sketching	, ,	<u>^</u>	· ·		Arc length, Area of	1 ^ ^
	modulus fuction	modulus functions	functions and	Arithmetic	infinity.	Modelling with series	sector, segment and	Sketching using
			1	Sequence and series			Solving	graphs of sec x,
			transformations.				trigonometric	cosec x and cot x in
							equations	trigonometric
ck								identities.
Block 1								
n 1-	Modelling in	Constant	Constant	Forces and	Forces and	Forces and Motion(3)	Variable	Variable
Term	Constructing a	Displacement-time	Constant	Force diagrams,	Motion in 2	Connected Particles and	Functions of time	Using Integration
Ţ	model and	graph, Velocity-time	Acceleration	Forces and vectors,	dimensions,	Pulleys.	using	and constant
	modelling	graph.	Formula 1 and 2,	Force and	Connected Particles.		differentiation,	acceleration
	assumptions,		Vertical motion	Acceleration.			Maxima and	formula.
	Quantities and units		under gravity.				Minima problems.	
	and working with		and Garage				F	
	vectors.							
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Trigonometric	Trigonometry and	Trigonometry and	Parametric	Differentiation(3)	Differentiation(3)	Revision	Revision
	Inverse	Solving trigonometric		Curve Sketching,	` ′	Parametric Parametric	220 1 101011	220 (2020)
	trigonometric	~ ~	_			Differentiation, Implicit		
		equations. Simplifying	_		_	_		
	functions & Using	$a \cos x \pm b \sin x$			~	Differentiation using		
	Angle Addition	Proving trigonometric		_	trigonometric	second derivatives, Rates		
κ 2	Formula and	identities		^	funtions. Chain rule,	of change.		
ock	Double angle			equations.	Product rule,			
1- Block 2	formula.		identities.		Quotient rule			
		I .	I		I	I		ĺ
Term 1	Moments(3)	Moments(3)	Moments,	Forces and	Forces and	Projectiles(3)	Projectiles(3)	Projectiles(1) &

	Moments.	of mass.	Forces	Friction	Horizontal Projection	Components, Projection at any angle.	angle and Projectile Motion Formulae.	Formulae & Module Test.
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Integration(3)	Integration(3)	Integration(3)	Numerical	Vectors(3)	Vectors(3)	Revision	Revision
	Integrating standard functions, f(ax+b),	1	Finding areas,	Locating roots, Iteration, The	3D coordinates, vectors in 3D,	Application to Mechanics.		
	Using trigonometric	_	trapezium rule, solving differential	Newton Raphson	Solving geometric	Wiednames.		
		fractions,	equations,	method,	problems.			
	chain rule	iractions,	modelling with	Applications to	proofeins.			
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \			differential	modelling.				
3100			equations.	and defining.				
Term 2- Block 1								
erm	Applications of	Applications of	Applications of	Applications of	Further	Further Kinematics(3)	Further	Further
T	Static Particles,	Friction and Static	Static Rigid Bodies,	Dynamics and	Vectors in	Vector Methods and	Variable	Integrating Vectors
	Modelling with	Particles, Static Rigid	Dynamics and	inclined Planes and	Kinematics and	projectiles and Variable	Acceleration in one	& Module Test.
	statics.	Bodies.	inclined Planes.	Connected Particles.	Vector Methods and	Acceleration in one	dimension and	
					projectiles.	dimension.	Differentiating	
							Vectors.	
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Revision	Revision						
01								
- Block 2								
Blo								
2-1	Revision	Revision						
Term 2								
Te								