St. Mary's Catholic High School MATH (2016-2017)

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	Jr1/1 & 2 **Numerals 1 to 20** Read and write numerals from 1 - 20. Counting objects upto 20. Missing numbers. Number names upto 10.		Jr1/3 **Number bonds of 4 and 5** Completing additions using number bonds of 4 and 5	Jr1/4 **Number bonds of 5 and 6** Completing additions using number bonds of 5 and 6	Jr1/5 **Number bonds of 10** Writing addition bonds to 10.	Jr1/6 **Doubles to 5** Identify doubles of numbers upto 5 and begin to add numbers to find the doubles	Jr1/7 **Adding 1, 2 and 3** Write the next two numbers and complete the addition	Jr1/8 **Reinforcement**
Term 1	Jr1/9 **Adding 1 more/1 less** Writing numbers one more or one less than any given number	Jr1/10 **2D Shapes** Identify 2D shapes and properties,straight and curved sides, symmetry with 2D shapes and venn diagram	Jr1/11 **Ordering/Comparing numbers** Ordering, Comparing and writing number between	Jr1/12 **Estimation/Ordinals** Estimating a number of objects, Identifying the teen numbers, Writing the ordinals in the correct order	Jr1/13 **Pairs to 5 and 6/ Time** Make pairs with total of 5 and 6. Reading time to 0'clock and half past.	Jr1/14 **Pairs to 7 and 10/Subtracting** Complete the addition to make 7 and 10. Subtracting numbers from 5, 6 and 10.	Jr1/15 **ms using bonds/subtracting f** Subtracting numbers from 10. solving problems using number bonds	Jr1/16 **Reinforcement**
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	Jr1/17 **comparing length/ Counting on** Can use language of position and direction,Comparing length,Complete the addition counting on and back by 1,2 and 3	Jr1/18 **Recognising/Adding Coins** Identifying coins, Adding up coins to find the total.	Jr1/19 **1 more/1 less/2 more/ 2 less** Finding out numbers that are one more or one less/two more or two less than any given numbers	Jr1/20 **Adding and subtracting bonds to 1(** Completing the addition and subtraction sentences to find bonds to 10	Jr1/21 **Bonds to 5,6 and 7/Counting** Complete the addition and subtraction to find fonds to 5, 6 and 7	Jr1/22 **3D Shapes/Days and Months of** Recognising 3D shapes and its properties, Sorting of shapes, Write the days of the week in the correct order,Completing the months of the year	Jr1/23 **Odd and Even numbers** Identifying odd and even numbers upto 100.	Jr1/24 **Reinforcement**
Term 2	Jr1/25 **Counting in 2's, 5's and 10's** Counting on and back in 2's, 5's and 10's	Jr1/26	Jr1/27 **Quarter/half of shapes/Half of** Identifying half and quarter of shapes, Finding out half of numbers	Jr1/28 **Doubles to 10/Pairs to 20** Add to find the doubles.Find the numbers that pairs to 20	Jr1/29 **O'clock/Half past/Quarter** Read and write the correct time to o'clock, half past, quarter to and quarter past.	Jr1/30 **10 more/10 less/Capacity** Adding and subtracting 10 to find the correct answer	Jr1/31 **Revision**	Jr1/32

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	Y 2/1 Estimate and count a number of objects up to 100; locate numbers on 0–100 beaded lines and 1–100 squares; compare pairs of numbers and	Y 2/2 Revise number bonds to 6, 7, 8, 9 and 10; know number bonds to 10 and begin to learn related subtraction facts; know multiple of 10 number bonds to 100,	Y 2/3 Double numbers to double 15, use patterns in number bonds, use number bonds to solve more difficult additions, to subtract and to solve additions bridging 10	Y 2/4 Sort 2D shapes according to symmetry properties and right angles using Venn diagrams, recognise squares, rectangles, circles, triangles, ovals and	Y 2/5 Begin to mark numbers on a number line, compare and order numbers, using signs, work systematically to find all possible inequalities, find 1 and	Y 2/6 Know and use ordinal numbers; understand that 2-digit numbers are made from some 10s and some 1s; Understand place value using 10p and 1p coins; find and	Y 2/7 Add and subtract 10, 20 and 30 to any 2-digit number; Add and subtract 11, 21, 12 and 22 to any 2-digit number; Solve addition and	Y 2/8 Understand and use terms and vocabulary associated with position, direction and movement; Measure lengths using uniform units; Begin to

	find a number in between; order three numbers, order 2-	learn bonds to 20, rehearse number bonds to 10 and 20		hexagons,sort shapes and objects using a two-way Carroll diagram	10 more or less using the 100-square	record all possible amounts using 10p and 1p coins;	subtractions by counting on and back in 10s then in 1s;	measure in centimetres and metres
Term 1	Y 2/9	Y 2/10	Y 2/11	Y 2/12	Y 2/13	Y 2/14	Y 2/15	
	Add and subtract 2-digit numbers; Solve addition and subtraction problems using concrete and pictorial representations; Add near doubles to double 15; Add several small numbers spotting	Count in 2s, 5s and 10s from zero; Count in multiples of 2p, 5p and 10p; Number sequences of 2s, 5s and 10s; Find the totals of coins and ways to make an amount; Use coins to make given amounts of money	Place value and ordering 2-digit numbers; place value additions and subtractions; add and begin to subtract 9, 10 and 11	Revise number bonds to 10; begin to bridge 10; subtract from 10 and 20; use number facts to find the complement to ten; find a difference between two numbers by counting on	Rehearse complements to multiples of 10; find differences using a number line; find change from 10p and 20p, and from £10 to £20 by counting up and using bonds to 10 and 20; add two 2-digit numbers by	Recognise and identify properties of 3D shapes; sort according to properties including number of faces; name the 2D shapes of faces of 3D shapes; tell the time to the nearest quarter on analogue and digital clocks	Order 2-digit numbers and revise the < and > signs; locate 2-digit numbers on a landmarked line and grid; round 2-digit numbers to nearest 10; estimate a quantity <100 within a range	Revision and Assessment First Term Exam
YEAR 2	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 2	Y 2/16	Y 2/17	Y 2/18	Y 2/19	Y 2/20	Y 2/21	Y 2/22	Y 2/23
	Revise doubles and corresponding halves to 15; find half of numbers to 30; Recognise $^1/_2$, $^1/_4$, $^1/_3$ and $^2/_3$ of shapes; place $^1/_2$ on a number line; count in $^1/_2$ and $^1/_4$;	Count in 2s, 5s and 10s to solve multiplication problems; introduce the × sign; record the 2, 5 and 10 times-tables; write multiplications to go with arrays, rotate arrays to show they are commutative	Tell the time to the nearest quarter of an hour using analogue and digital clocks; understand the relationship between seconds, minutes and hours and use a tally chart; interpret and complete a pictogram or block graph where	Revise 2, 5 and 10 times-tables; revise arrays; multiply by 2, 3, 4, 5 and 10; arrange objects into arrays and write the corresponding multiplications; write divisions as multiplications with holes in and use the ÷ sign	Recognise all coins, know their value, and use them to make amounts; recognise £5, £10, £20 notes; make amounts using coins; write amounts using £.p notation; add two amounts of pences; add two amounts of	Locate, order and compare 2-digit numbers on 0-100 number lines and on the 1-100 square; use signs; introduce numbers 101 to 200 and count in 100s to 1000; add 2-digit numbers by counting on in 10s and 1s;	Use doubles and number bonds to add three 1-digit numbers; find complements to multiples of 10; understand subtraction as difference and find this by counting up; find small	Add and subtract 1-digit numbers to and from 2-digit numbers; add 2-digit numbers using 10p and 1p coins (partitioning, answers less than 100); add 2-digit numbers using place-value cards (partitioning,
Term 2	Y 2/24	Y 2/25	Y 2/26	Y 2/27	Y 2/28	Y 2/29	Y 2/30	
	Measure weight and capacity using standard or uniform non-standard units; draw a block graph where one square represents two units; weigh items using 100g weights using scales marked in multiples of	Double multiples of 10 and 5 (answers less than 100); double 2-digit numbers ending in 1, 2, 3 or 4 (answers less than 100); find a quarter of numbers up to 40 by halving twice; begin to find 3/4 of numbers; find 1/2 1/4 and 1/3	Begin to understand that addition undoes subtraction and vice versa; add three or more small numbers using number facts; record amounts of money using £·p notation including amounts with no 10s or 1s; find more than one	Count in 3s; recognise numbers in 3 times-table; understand that multiplication is commutative and division and multiplication are inverse operations; solve divisions as multiplications with a missing number; count in 2s, 3s,	Measure and estimate lengths in centimetres; tell the time involving multiples of 5 minutes past the hour and 5 minutes to the hour; tell time to 5 minutes; begin to say the time 10 minutes later	Partition to add two 2-digit numbers; find the difference between two 2-digit numbers; multiply two numbers using counting in steps of 2, 3, 5 and 10; solve division problems by counting in steps of 2, 3, 5 and	Compare two 2-digit numbers and find bonds to 100 using thermometers; revise place value in 2-digit numbers, numbers between 100 and 200, and 3-digit numbers (including zeros in	Revision and Assessment 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
Term 1	G3M1	G3M2	G3M3	G3M4	G3M5	G3M6	G3M7	G3M8
	Number and Place value/	**Mental addition and**	**Mental addition and**	**Mental multiplication and**	**Doubles to double 30 and**	**Time/Calender**	**3-D shapes/ Placing**	**Round to the nearest 10/100**
	Read and write numbers up to 1000 in numerals and in words. Recognise place and place value of 3-digit numbers, comparing and ordering numbers, partitioning of 3-digit	Multiples of 5 and 10 bonds to 100. Addition using bonds to 10, 20 and doubles, inverse operation.	Adding or subtracting multiples, near multiples of 10 to or from 2-digit numbers.	Multipyig and dividing by 3, 4, 5 and 10. Understand that division is the inverse of multiplication.	Doubling numbers to 30 and halving even numbers to 40. Recall doubles of numbers 1 to 20, derive the related halves and apply reasoning skills to choose numbers that will give	Telling time to quarter hour on analogue, digital clocks including using Roman numerals from I to XII. Know the number of days in each month, year and leap	Recognise 3D shapes in different orientations and describe them. Finding and placing numbers on a number line.	Round to the nearest 10. Finding numbers on a number line and rounding to the nearest 100.
Term 1	G3M9	G3M10	G3M11	G3M12		G3M13	G3M14	
	Doubles upto double 50	**Fractions of shapes and**	**Addition and subtraction**	**Money**		**Measuring length/ capacity**	**Mental**	**Revision**
	Double 2-digit numbers to 50 and halve 2-digit numbers up to 100; odd numbers to 30.	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators, e.g. 1/2 , 1/3sand 1/4 s	Begin to add numbers with up to 3 digits, using formal written methods of columnar addition (1s greater than 10s or 10s greater than 100s).	Adding amounts of money. Solve number and practical problems using place value to add and subtract amounts of money.		Measure and compare lengths; (m/cm/mm) and capacity (ml/L)	Understand that a remainder is the amount left over after a division and begin to understand the patterns of remainders.	

YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	G3M15	G3M16	G3M17	G3M18	G3M19	G3M20	G3M21	G3M22
	Number and place value/	**Multiplying and dividing by 4**	**Fractions**	**Recognising angles/ 2-D**	**Perimeter/ Angles and turns**	**Subtracting money from £2,**	**Time and Time intervals**	**Multiplying multiples of 10/**
	Round 3- digit numbers to the nearest 10 and 100.	Recall and use multiplication and division facts for the 4 and byheart 8 times multiplication tables. Sort multiples of 2, 3, 4, 5 and 10 using Venn diagram.	Compare and order unit fractions, and fractions with the same denominators/Add and subtract fractions with the same denominator within one	Identify and draw 2D shapes, and describe their properties, regular and irregular polygons; quadrilaterals and different types of triangles. Use a right angle tester to identify right	Begin to measure the perimeter of simple 2D shapes and rectilinear shapes. Recognise the relationship between angles and turns.	Add and subtract amounts of money to give change, using both £ and p in practical contexts. Find change from £10, £5, £2.	Calculate time intervals and compare durations of events. Estimate and read time with increasing accuracy to the nearest minute; record	Multiply and divide multiples of 10 by 3, 4 and 5. Begin to use the grid method to multiply 2-digit numbers by 1-digit numbers.
Term 2	G3M23	G3M24	G3M25	G3M26	G3M27	G3M28	G3M29	
	Vertical multiplication /	**Doubling and halving/**	**Multiplying and dividing by**	**Handling data**	**Measuring**	**Parallel,**	**Problem solving**	**Revision**
	Write and calculate mathematical statements for multiplication using multiplication tables,	Relating doubles and halves to multiplying and dividing by 2.	Begin to make generalisations and solve problems, including missing number problems and word	Interpret and present data using bar charts, pictograms and tables. Solve 1-step and 2-step	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (L/ml).	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	Choose an appropriate strategy (mental or written) to solve problems involving	

	including 2-digit numbers. Using mental and progressing		problems, involving 2-digit by 1-digit multiplication	questions (for example, 'How many more?' and			different operations(addition, subtraction,	

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	Numbers	Numbers	Numbers	Numbers	Numbers	Fractions	Fractions	Measurement
	Addition and subtraction	Number and place value (NPV);	multiplication and division (MMD);	Written addition and subtraction	multiplication and division	Fractions, ratio and proportion	Fractions	Time
	Finding pairs with a total of 100	Read, write 4-digit numbers and know what each digit represents;	Learn × and ÷ facts for the 6 and 9 times-table and identify patterns; multiply multiples of 10 by single-digit numbers; multiply 2-digit numbers by single-digit numbers (the grid method); find fractions of	Add two 3-digit numbers using column addition; subtract a 3-digit number from a 3-digit number using an expanded column method	Double 3-digit numbers and halve even 3-digit numbers; revise unit fractions	identify equivalent fractions; reduce a fraction to its simplest form; count in fractions (each fraction in its simplest form)	Use mental multiplication and division strategies; find non-unit fractions of 2-digit and 3-digit numbers; find equivalent fractions and use them to simplify fractions	Tell and write the time to the minute on analogue and digital clocks; calculate time intervals;
Term 1	Numbers	Decimals and percentages	Decimals and percentages	Measurement	Numbers	Numbers	Numbers	
	Rounding numbers	Decimals	Decimals	Length	Addition and subtraction	Written multiplication and	Written multiplication and	
	Place 4-digit numbers on landmarked lines; 0–10 000 and 1000–2000; round 4-digit numbers to the nearest 10, 100 and 1000; subtract 3-digit numbers using the expanded	Compare numbers with up to 2 decimal places, identify the valueof the digits as ones, tenths and hundredths, and round decimal numbers to the nearest whole.	Recognise that tenths and hundredths arise when dividing by 10 and 100; multiply decimal numbers by10 and 100, Count up and down in tenths and hundredths.	Measure in metres, centimetres and millimetres; convert lengths between units; record using decimal notation Solve simple measure problems	Mentally add and subtract to/from 4-digit and 3-digit numbers using place-value; count on and back in multiples of 10, 100 and 1000; count on in multiples of 25 and 50; add	Use the grid method to multiply 3-digit by single-digit numbers and introduce the vertical algorithm; begin to estimate products; divide numbers (up to 2 digits) by single-digit numbers	Divide 2-digit and 3-digit numbers by 1-digit numbers using place value and mental strategies; identify factor pairs and use these to solve multiplications and	Revision

YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	Geometry	Geometry	Geometry	Measurement	Measurement	Measurement	Measurement	Measurement
	Angles and lines	2D shapes	Symmetry	Mass and capacity	Money	Time	Perimeter	Area
	Recognise and compare acute, right and obtuse angles;	Sort 2D shapes according to their properties; draw shapes with given properties and explain reasoning.	Identify perpendicular and parallel lines, recognise and draw line symmetry in shapes; ; draw the other half of symmetrical shapes	Convert multiples of 100 g into kilograms; convert multiples of 100 ml into litres; read scales to the nearest 100 ml; estimate capacities;	Add amounts of money using written methods and mentally using place value and number facts; choose to add and subtract using the appropriate strategy: mental or written;	Tell the time on a 24 hour clock, using am and pm correctly; convert pm times to 24 hour clock and vice versa; use 24 hour clock in calculating intervals of time;	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	Find the area of rectilinear shapes.
Term 2	Number and place value	Number and place value (NPV);	Geometry	Statistics	Numbers	Numbers	Numbers	
	Negative numbers	Roman Numerals	Coordinates	Handaling data	Multiplication and division	Multiplication and division	Addition and subtraction	
	Read, write and compare 5-digit numbers; read, use and compare negative numbers in the context of temperature	Recognise and read Roman numerals to 100; begin to know the history of our number system including 0;	Use coordinates to draw polygons; find the coordinates of shapes after translation; Describe movements between positions as translations ofa unit left/right and up/down	Draw and interpret bar charts and pictograms; draw line graphs and understand that intermediate points have meaning	Learn 11 and 12× tables; use a vertical written method to multiply 3-digit numbers by 1-digit numbers; use a written method to multiply 3-digit numbers, multiply 2-digit and 3-	Use the vertical algorithm (ladder) to multiply 3-digit numbers by 1-digit numbers; find non-unit fraction of amounts, using 'chunking'; add fractions with like denominators,	Solve written addition of two 4-digit numbers; add amounts of money (pounds and pence) using column addition; solve 4-digit minus 4-digit and 4-digit minute 3-	Revision

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	GR5/1		GR5/2	GR5/3		GR5/4	GR5/5	
	Number Skills(1)		Geometry(1)	Number Skills(2)		Geometry (2)	Number Skills(3)	
	Place Value of 6-digit numbers, Compare, order & rounding 5-digit numbers, Add and Subtract 4-digit numbers with multiplies of 10 & counting method		Measure & Draw angles in degrees of acute, obtuse and reflex.Angle in a line and around a point.	Multiply 4 digit*2 digit and Divide 4 digit/2 digit, Dividing by 2, 3, 4, 5, 9 and 10.		Draw Circles,Identify radius and circumference, Relate angles to turns	Comparing & finding equivalent fractions, Proper,Improper and mixed fractions and conversions	

YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	GR5/6	GR5/7			GR5/8		GR5	
	Geometry(3)	Number Skills(4)			Geometry(4)		WEEK 15 & WEEK 16	
	12-hour clock times and 24-hour clock times,Calculate time past & time intervals	3-digit Decimals, Place Value, Rounding and Ordering decimals, Addition and Subtraction of decimals, multiplying and dividing by multiplies of 10.			Units of length, mass, capacity, Identifying 2D &3D shapes, Area and perimeter,Volume and Capacity.		REVISION	

YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	GR5/9		Gr5/10	Gr5/11	Gr5/12		GR5/13	GR5/14
	Number Skills(5)		Geometry(5)	Number Skills(6)	Number Skills(6)cont.		Number Skills(7)	Number Skills(7)cont.

Term 2	Prime numbers,multiplies and factors,Square and cube numbers	Properties of Triangles and polygons, metric and Imperial units	Percentages.Converting to decimals,fraction.	Adding and Subtracting fractions,multiplying proper fractions by whole numbers, comparing fractions.	Ratio and Proportions(not in text book), Dividing the ratios.	Probability

Term 2	**GR5/15**	**GR5/16**	**GR5/17**	**GR5**
	Geometry(6)	**Number Skills(8)**	**Number Skills(9)**	**WEEK 31 & WEEK 32**
	Drawing and interpreting Graphs, Scaling, Translations and Reflections	Negative numbers, Roman Numerals, BODMAS, inverse operations	Finding change, add and subtract money	REVISION

YEAR 6 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	Fractions,decimals & Percentages (10)		Algebra (10)		Constructions(10)		Handling Data(5)	Probability (5)
	Learning Objective		**Learning Objective**		**Learning Objective**		**Learning Objective**	**Learning objective**
	Consolidate and extend mental methods of calculation to include decimals,fractions and percentages, solve word problems.		Use letter symbols to represent unknown numbers and variables. Know the meaning of 'term', expression and equation.		Construct all angles including reflex angle, construct triangles(ASA,SAS). Calculate missing angles on a straight line, around a point, in a traingle and in a quadrilateral.		Collecting data and Recording data	Use probability scale with words. Find the probability of equally likely outcomes. Revise the topics done.
Term 1	Sequences & Patterns (10)		Area Perimeter (10)		Transformations(10)		Cordinates and linear graphs (10)	
	Learning Objective		**Learning Objective**		**Learning Objective**		**Learning Objective**	
	Work out Area and perimeter of squares, rectangles and other compound shapes made of squares and rectangles.		Work out Area and perimeter ofsquares, rectangles and other compound shapes made of squares and rectangles.		understand and use the language and notation associated with ratations, translations and reflections.Transform 2-D shapes by simple cominations of rotations, reflections and translations.		Read and plot coordinates in all four quadrants, generate coordinate pairs, that satisfy a simple lenear functions, where y is given specifically in terms of x, recognise straight line graphs parallel to the x- axis and y-axis.	

YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	Statistics(10)		Measures(10)		Time (5)		Money(5)	
	Learning objective		**Learning Objective**		**Learning objective**		**Learning objective**	
	To calculate mean, median, mode and range from sets of discrete data and grouped frequency table.		Convert from one unit of measure to another & answer questions about scales,Compare readings from different scales		reading time, analogue and digital clock, time duration.		Conversion of pounds to pence and back, solving money word problems	
Term 2	Ratio Proportion (10)		Shapes(10)					
	Learning Objective		**Learning Objective**		REVISION		PRE MOCK EXAMS	MOCK EXAMS
	Solve simple problemsusing ideas of ratio and proportions,use percentages to compare simple proportions		Show relationships involving Quadrilaterals & polygons,Classify shapes using properties such as parallel & perpendicular,Using Venn diagrams. Properties of 3-D shapes, identifying their nets		Revise Grade 3,4,&5 portion			

YEAR 7 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR7	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	GR7/1	GR 7/2	GR7/3	GR/4	GR7/5	GR7/6	GR7/7	GR7/8
	Unit2.Number Skills	**Contd Number skills**	**Unit3.Equations /formulae.**	**Unit7. Equations**	**Contd Equations**	**Unit 5. Angles and shapes.**	**elta2-Unit7-Constructions**	**t1-Analysing and Displaying d**
	Recap of prime numbers/factorisation/LCM &HCF/Directed numbers.	Operation on Directed numbers/Squares and squareroots+Assessment	Simplifying algebraic expressions/formulae/Brackets and powers/Factorising.	Solving one step/two step equations.	Solving more complex equations /Trial and improvement + Assessment.	Angles and parallel lines/Triangles/quadrilaterals + Assessment.	Construction of triangles(SAS,SSS.ASA)/ Perpendicular bisector/Angle bisector/geometrical proofs.	Two-way tables and barcharts/Averages and range/grouped data.

Term 1	GR7/9	GR 7/10	GR7/11	GR7/12	GR7/13	GR7/14	GR7/15	GR7/16
	d .Analysing and Displaying	**Unit4-Fractions**	**Contd Fractions.**	**nit9. Perimeter ,area and volu**	**ntd.Perimeter,area and volu**	**Contd Perimeter,area,volume**		
	Construct and interpret pie chart, Line graphs from real world.	Working with Fractions ,Addition and subtraction of fractions.	Multiplication and division of fractions/word problems.	Area and perimeter of triangle/parallelogram/trapezium	Area and perimeter of compound shapes /word problems./Properties of 3D solids.	Total surface area and volume ofcube and cuboid.	Revision	Revision
YEAR 7	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 2	GR7/17	GR7/18	GR7/19	GR7/20	GR7/21	GR7/22	GR7/23	GR7/24
	Unit6.Decimals	**Contd.Decimals.**	**Contd Decimals.**	**Delta2- Unit 3.2D and 3Dsolids**	**Contd.2D and 3D solids.**	**Contd.2D nd 3Dsolids.**	**Delta2 Unit8 Probability.**	**Contd probability**
	Decimals/ ordering decimals/Addition and subtraction of decimals	Multiplication and Division of decimals+assessment.	Conversion of fractions,decimals and percentages.	Circumference and Areaof circles,semicircles/quadrants.	Circumference and area of circles contd.	.Surfacearea and Volume of triangular prism and cylinder+assessment	Comparing probabilities/Mutually exclusive events/ estimating probability	Experimental probability/Probability diagrams/ assessment
Term 2	GR7/25	GR7/26	GR7/27	GR7/28	GR7/29	GR7/30	GR7/31	Gr7/32
	Unit10 Sequences and Graph	**Contd Sequences and Graphs**	**Unit8 Multiplicative Reasoning**	**Contd Ratios.**	**nit 5 Delta2 Transformation**	**Contd Transformations.**		
	Sequences/nth term/pattern sequences	.Coordinates and line segments/straight line graphs.	Metric and imperial units/writing ratios/sharing a given ratio.	Proportion/direct and inverse proportion/unitary method	Translations/Reflections	Enlargements /Rotation..	Revision	Revision

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	**GR8/ 1**		**GR8 /2**		**GR8/3**			**GR 8/4**
	UNIT 1: Factors and powers (Delta2)		**UNIT 2 :Working with powers(Delta 2)**		**UNIT 7: Construction and Loci and Unit 9:Scale Drawing and Measures(Delta 2)**			**UNIT 4:RealLife Graphs(Delta 2)**
	Recap decimals. HCFand LCM Powers and roots,prime factors. To find the square root and cube root. Powers of 10, Law of indices . Calculating and estimating.		Simplifying expressions. Simplify expressions with powers. Expanding and factorising expressions. Substituting and solving (including unknown on both sides)		Construct triangles.Constructing perpendicular bisectors and angle bisectors. Loci. Maps and scales.Bearings			Distance-time graphs, Rates of change(Delta 3-Unit 7.1)
Term 1	**GR8/ 5**		**GR8 /6**	**GR8/7**	**GR8/8**		**GR8**	
	UNIT6:Fractions,Percentages and Decimals(Delta 2)		**UNIT 3 :Inequalities,equations**	**Unit 10:Graphs(Delta 2)**	**Unit 3:3D Solids(Delta 2)**		**Week 15 and Week 16**	
	Recap fractions,percentages and conversions.Using percentages,Percentage change,Repeated percentage change.		Index Laws,solving equations,changing the subject,Algebraic fractions	Plotting linear graphs,The gradient,y=mx+c,Parallel and perpendicular lines	Surface area of prisms,Volume of prisms,Circumference and Area of a circle,Cylinders,Pythagoras Theorem		**REVISION**	
YEAR 8	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 2	**GR 8/9**	**GR 8/10**			**GR8/11**		**GR8/12**	
	UNIT 8:Probability(Delta 2)	**UNIT 2:Quadratics(Delta 3)**			**UNIT 5:Multiplicative Reasoning(Delta 3)**		**Unit 4:Collecting and Analysing Data(Delta 3)**	
	Mutually exclusive, Estimating probability, experimental and probability diagrams,Tree diagrams	Sequences,Expanding,Factorising & Solving Quadratic equation(Identities)			Direct Proportion(Delta 2&3-4.1&5.1), Non-linear proportion, Arcs and Sectors of circles.		Presenting ,comparing & estimating data,Frequency Graphs.	
Term 2	**GR8/13**		**GR8/14**	**GR 8/15**	**GR8/16**		**GR8**	
	UNIT 8:Graphical Soutions(Delta 3)		**UNIT 7:Accuracy and**	**UNIT 1:Powers and roots**	**UNIT 5:Transformations(Delta 2)**		**Week 31 and Week 32**	
	Simultaneous Equations(Subsituting, Eliminating & Graphical solutions) Using y=mx+c		Upper and Lower bounds,Calculating with bounds	Standard form, Surds,Fractional indices	Reflection, Translation, Rotation, Enlargement & Combination		REVISION	

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	GR 9 /1	GR 9/2	GR 9/3	GR 9/4	GR 9/5	GR 9/6	GR 9/7	GR 9 /8
	Number (6)	Number Contd (5) + Assessment(1)	Algebra (6)	Algebra Contd (5) + Assessment(1)	Interpreting and representing data (6)	Interpreting and representing data Contd	Fractions,ratio and percentages (6)	(6)
	To work out the total number of ways of performing a series of tasks.To find the prime factors,HCF and LCM. To write a number in standard form.	To calculate with numbers in standard form.To work out sums with surds.	To solve sums involving algebraic indices.To factorise algebraic expressions.To solve equations involving brackets and numerical fractions.To substitute numbers into fomulae.	To rearrange formulae.To solve sums on linear sequences.To expand the product of two brackets.To use the difference of two squares.To factorise quadratics of the form x2+bx+c	To construct and use back -to-back stem and leaf diagrams,frequency polygons and pie charts.To plot and interpret time series , scatter graphs.	Draw a line of best fit on a scatter graph.To .To find the modal class and the group containing the median.To construct and use two-- way tables.	To carry out operations on fractions .To solve poblems involving ratio.To convert between currencies and measures.To use direct proportion.	To work out percentage increase and decrease.To solve real - life problems involving percentages.
Term 1	GR 9 /9	GR 9/10	GR 9/11	GR 9/12	GR 9/13	GR 9/14	GR 9/15	
	Angles and Trigonometry (6)	Angles and Trigonometry Contd (6	Graphs (6)	Graphs Contd (6)	Graphs Contd(6)	Graphs Contd (6)	Revision	
	To derive and use angle properties of triangles,quadrilateral and exterior angle of triangle.To calculate the sum of the interior angles and exterior	To use trignometric ratios to find the lengths and angles in a right angled triangle.To find angles of elevation and depression.	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.	To find the equation of a line given its gradient and one point.To draw and interpret distance-time graphs.To calculate average speed from a distance - time graph.	To understand velocity - time graphs.To find acceleration and distance from velocity - time graphs.To draw and iterpret real - line linear graphs.	To find the coordinates of the midpoint of a line segment.To find the gradient and length of a line segment.To find the equations of lines parallel or perpendicular to the given line.	To reinforce concepts taught.	

YEAR 9	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	GR 9 /16	GR 9/17	GR 9/18	GR 9/19	GR 9/20	GR 9/21	GR 9/22	GR 9 /23
	Area and volume (6)	Area and volume Contd (5) + Ast(1)	Area and volume Contd (6))	Transformations and Constructions (6)	Transformations Contd (6)	Transformations Contd (6)	Transformations Contd (6)	Equations and Inequalities (6)
	To find the perimeter and area of compound shapes.To convert between metric units .To calculate the maximum and minimum possible values of a measurement.	To calculate volumes and convert between metric units of volume.To calculate the area and circumference of a circle.	To calculate arc lengths,angles and areas of sectors of circles.To calculate volume and surface area of a cylinder and a sphere and solve problems.	To draw plans and elevations of 3D shapes.To reflect 2D shape .To rotate 2D shape .To enlarge shapes by fractional scale factors about a centre of enlargement.	To enlarge shapes by negative scale factors about a centre of enlargement.To translate a shape using a vector.To draw scales on maps.To solve problems involving bearings.	To bisect an angle ,construct angles,and construct shapes made from triangles using a ruler and compass.To construct triangles .To construct the perpendicular bisector.	To construct the shortest distance from a point to a line using a ruler and compass.To draw a locus.To use loci to solve problems.	To solve quadratic equations by factorising.To solve simple simultabeous equations.
Term 2	GR 9 /24	GR 9/25	GR 9/26	GR 9/27	GR 9/28	GR 9/29	GR 9/30	
	Equations and Inequalities (6)	Probability (8)	Similarity and congruence(4)	Similarity and congruence(6)	Circle Theorems(6)	Circle Theorems(6)	Revision	
	To solve simultaneous equations graphically.To solve inequalities.To represent inequalities on graphs.	To solve problems on combined events.To find probabilities of mutually exclusive events.To draw and use probability tree diagrams and venn diagrams.	To show that two triangles are congruent.To know the conditions of congruence.To prove shapes are congruent.To solve problems involving congruence.	To use the ratio of corressponding sides to work out scale factors.To find missing lengths on similar shapes	To solve problems involving chords and radii.Toprove facts about angles in circles.To find miising angles using theorems.	To understand prove and use facts about angles subtended at the circumference of a circle.To solve problems using circle theorems.	To reinforce concepts taught.	

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	GR 10 /1	GR 10 /2	GR 10 /3	GR 10 /4	GR 10 /5	GR 10 /6	GR 10 /7	GR 10 /8
	Number (6)	Number (Continue + Assesment)(6)	Algebra + Assesment (6)	Interpreting and representing data (6	Angles and trigonometry and more	More Trigonometry + Assesment (6)	Graphs(6)	Graphs (Continue)(6)
	Estimate an answer. Find the HCF and LCM of two numbers. Use powers and roots in calculations. using index laws. Work out a power raised to a power. Use negative indices. And fractional indices	Write a number in standard form. Calculate with numbers in standard form. Understand the difference between rational and irrational numbers.Simplify a surd. Rationalise a denominator.	Solve problems using geometric sequences. Work out terms in Fibonnaci-like sequences. Find the nth term of a quadratic sequence.	Plot and interpret time series graphs. Use trends to predict the future. Construct and use two-way tables. Choose appropriate diagrams to display data. Recognise misleading graphs.	Use trigonometric ratios to solve problems. Know exact values of the sine, cosine and tangent of some angles. Upper and lower bounds in trigonometry.Find the area of a triangle and a segment.	Use the sine rule to solve 2D problems. Use the cosine rule to solve 2D problems. Solve bearings problems using trigonometry	Draw and interpret distance–time graphs. Average speed from a distance–time graph. Velocity–time graphs. Acceleration and distance from velocity–time graphs	Draw and interpret real-life linear graphs. Find the coordinates of the midpoint of a line segment. Find the equations of lines parallel or perpendicular to a given line. Draw quadratic graphs
Term 1	GR 10 /9	GR 10 /10	GR 10 /11	GR 10 /12	GR 10 /13	GR 10 /14	GR 10 /15	
	Graphs (Continue)(6)	Graphs(Continue) + Assesments(6)	Area and volume(6)	Area and volume(Continue)(6)	Vectors and geometric proof (6)	Vectors and geometric proof (6)	Revision(12)	
	Solve quadratic equations using graphs. Identify the line of symmetry of a quadratic graph. Interpret quadratic graphs relating to real-life situations. Draw graphs of cubic functions	Solve cubic equations using graphs. Draw graphs of reciprocal functions. Recognise a graph from its shape. Interpret linear and non-linear real-life graphs. Draw the graph of a circle	Calculate the perimeter and area of semicircles and quarter circles. Calculate arc lengths, angles and areas of sectors of circles. Calculate volume and surface area of a cylinder and a sphere.	Solve problems involving volumes and surface areas. Calculate volume and surface area of pyramids and cones. Solve problems involving pyramids and cones.	Understand and use vector notation. Calculate the resultant of two vectors, to solve vector problems, position vectors. Prove lines are parallel. Prove points are collinear.	Solve geometric problems in two dimensions using vector methods. Apply vector methods for simple geometric proofs.	Reinforce all the concepts taught and discuss the worksheets.	

YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	GR 10 /16	GR 10 /17	GR 10 /18	GR 10 /19	GR 10 /20	GR 10 /21	GR 10 /22	GR 10 /23
	Multiplicative reasoning(6)	Circle theorems (6)	Circle theorems (Continue) (6)	Probability(6)	Similarity and congruence (6)	Further statistics (6)	Further statistics (Continue) (6	Further statistics (continue)+test(6
	Find an amount after repeated percentage changes. growth and decay. rates.Convert metric speed	Understand about tangents at a point and from a point. Prove and	Understand, prove and use facts about cyclic quadrilaterals and alternate segment theorem	Draw and use frequency trees. Draw and use probability tree	Solve problems involving congruence. Use similar triangles	Understand simple random sample and stratifi ed sample.	Work out the median,	Understand frequency density. Draw histograms.

Ter	decay, rates.Convert metric speed measures. Compound measures, ratio,direct and indirect proportion.	use facts about angles subtended at the centre and the circumference, angle in a semicircle and angles subtended at the circumference of a circle	theorem. Give reasons for angle sizes using mathematical language. Find the equation of the tangent to a circle at a given point.	diagrams. use tree diagrams, two-way tables and Venn diagrams to calculate conditional probability. Use set notation	to work out lengths in real life. Use the link between scale factors for length, area and volume to solve problems	Draw and interpret cumulative frequency tables and diagrams. Work out the median, quartiles and interquartile range from a cumulative frequency diagram	quartiles and interquartile range from stem-and-leaf diagrams. Draw and interpret box plots.	Interpret histograms Compare two sets of data.
Term 2	GR 10 /24	GR 10 /25	GR 10 /26	GR 10 /27	GR 10 /28	GR 10 /29	GR 10 /30	
	Equations and inequalities(6)	quations and inequalities (Continue)(6	Equations and inequalities (Continue)(6	More algebra (6)	More algebra (Continue) (6)	Transformations and constructions (6)	Revision(12)	
	solve simple quadratic equations. Solve complex quadratic equations. Use the quadratic formula to solve a quadratic equation.Solve quadratic equations by completing the square	Solve simultaneous equations for real-life situations. Use simultaneous equations to find the equation of a straight line. Interpret real-life situations involving two unknowns and solve them	Solve simultaneous equations with one quadratic equation. Construct quadratic and linear equations and solve them. Solve inequalities and show the solution on a number line and using set notation	Change the subject of a formula Add and subtract algebraic fractions. Multiply and divide algebraic fractions. Change the subject of a formula involving fractions where all the variables are in the denominators	Simplify complex algebraic fractions. Multiply and divide more complex algebraic fractions. Surds.Use function notation. composite functions, inverse functions.	Describe combinations of transformations, scale drawings, bearings.Construct triangles using a ruler and compasses, shortest distance from a point to a line. Locus	Reinforce all the concepts taught and discuss the worksheets.	

YEAR 11 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 11	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	GR11/1	GR11/2	GR11/3	GR11/4	GR11/5	GR11/6	GR11/7	
	Unit 13More Trigonometry(7)	More Trigonometry(contd) (3)	More Trigonometry(contd)(5)	Unit19Proportion and Graphs(6)	More Trigonometry(6)	Unit6Graphs(5)	Proportion and Graphs(8)	
	Use upper and lower bounds in calculations, Calculating areas and the sine rule, The cosine rule and 2D trigonometric problems	Solving problems in 3D	Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5	Translating, Reflecting and Stretching graphs of functions	Reflecting, translating and stratching Trigonometric curves, Solve equations. Assessment - 2 Transformation	D/T, V/T and More real life graphs	Calculate the gradient of a tangent at a point, Estimate the area under a non linear graph. Assessment 3	
Term 1	GR11/8	GR11/9	GR11/10	GR11/11	GR11/12	GR11/13	GR11/14	
	Unit 15 Equations and	Unit 14 Further Statistics(5)	Further Statistics(5)	Unit 17More Algebra(5)	Unit11Multiplicative Reasoning(5	Unit 7Area and Volume (5)	Revision	
	To find an accurate root of a quadratic and cubic equation by using iterative process. Assessment - revision unit 9 and unit 15	Sampling, cumulative frequency, box plots	Drawing and interpreting Histograms, comparing and describing population Assessment revision units - 1,2,4,	Algebraic fractions, surds, solving algebraic fraction equations , functions	Growth, decay, compound measures, ratio and proportion	Prisms, circles, sectors of circles, cylinders and spheres, pyramids and cones	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	GR11/15	GR11/16	GR11/18	GR11/19	GR11/20	GR11/21	GR11/21	GR11/22
	Unit16Circle Theorems(5)	hit18Vectors and Geometric Proof(	Unit10Probability(5)	Unit12Similarity and Congruence(5	Similarity and Congruence(5)	3Interpreting and representing dat	Unit8Transformation and	Transformation and Constructions
	To prove and apply all the circle theorems	Vector Arithmetic, Parallel and collinear vectors, Solving geometric problems Assessment 1	Mutually exclusive, Independent events, Experimental probbaility, conditional probability, venn diagrams and set notation	Similar , Congruent triangles,	similarity in 3D shapes. Assessment 2	Time series, scatter diagrams, line of best fit, averages and range	Reflection, Translation, enlargement and Rotation, Bearings and scale drawings	Constructions and loci
Term 2	GR11/							
	Revision							
	Reinforcing all the concepts taught. Disussion of sample papers and mock papers.							

YEAR 12 LONG TERM PLAN (PURE APPLIED) with CURRICULUM STANDARDS

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	**C 1 Module 1 (2)**	**C 1 Module 2 (1)**	**C 1 Module 3 (1)**	**C 1 Module 4 (4)**	**Revision(2) + TEST(1)**	**C 1 Module 5 (4)**	**C 1 Module 6 (4)**	**C 1 Module 6 (2)**
	ALGEBRA & FUNCTIONS	QUADRATIC EQUATIONS	EQUATIONS & INEQUAL	SKETCHING CURVES	Module 1,2,3,4	CO-ORDINATE GEOMETRY	SEQUENCE & SERIES	SEQUENCE & SERIES
	Appling laws of indices. Factorising quadratic expressions. Surds.	Solve quadratic equations by completing the square, by quadratic formula. Sketching quadratic graphs.	Solving one linear one quadratic equations. Solve linear and quadratic inequalities.	Performing transformations on graphs + Mixed exercise questions.	Review exercise questions and assessment from the previous 4 topics.	Finding equation of parallel and perpendicular lines + Mixed exercises.	Finding nth term of a sequence, Using recurrence relationship. Arithmetic sequence.	Sum to n terms of an arithmetic series, Using Σ notation.
	C 1 Module 2 (2)	**C 1 Module 3 (3)**	**C 1 Module 4 (3)**		**C 1 Module 5 (1)**			**Revision(1) + TEST(1)**
	QUADRATIC EQUATIONS	EQUATIONS & INEQUALITIES	SKETCHING CURVES		CO-ORDINATE GEOMETRY			Module 5,6
	Solve quadratic equations	Solve simultaneous equations by	Sketching graphs of cubic and		Equation of straight line in the			Review exercise questions and

	M1 Module 1 (9)+ TEST(1)					**M1 Module 2 (6)**		
	KINEMATICS OF A PARTICLE					DYNAMICS OF A PARTICLE		
	Use the formulae v=u+at	Apply the formulae	To use theuniform acceleration	To solve more problems from	Solve questions involving	Understand and use Newton's law	To draw a diagram	Calculate the magnitude of a
YEAR 12	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
	C 1 Module 7 (4)	**C 1 Module 7 (1)**	**C 1 Module 8 (1)**	**C 2 Module 1 (4)**	**C 2 Module 2 (4)**	**C 2 Module 2 (1)**	**C 2 Module 3 (4)**	**Revision(4)**
	DIFFERENTIATION	DIFFERENTIATION	INTEGRATION	ALGEBRA & FUNCTIONS	SINE & COSINE RULE	SINE & COSINE RULE	EXPONENTIALS &	**C 1 topics for exam**
	Gradient of a function, Expand, simplify polynomials and differentiate, Second order derivative	Find equation of tangent and normal to the curve	To work out questions from the mixed exercise	Simplifying algebraic fractions, Dividing a polynomial, Factor theorem and remainder theorem.	Using sine rule and cosine rule to find the missing angle and side. Using Pythagoras Theorem to solve problems.	Finding area of triangle using sine.	Solving equations of the form a^x = b. Changing base of logarithm.	Revise topics from C1 and solve past papers
		C 1 Module 8 (3)	**Rev(1) +C1 TEST(2)**			**C 2 Module 3 (3)**		
		INTEGRATION	**C 1 module test**			EXPONENTIALS &		
		To apply the principles of integration. To find the constant c and hence the equation of the curve.	Review exercise questions and C1 full module test.			Writing expressions as logarithms, Using laws of logarithms.		
								Revision(2)
								(**M1**)Module 1 and 2
	To solve problems about a particle on an inclined plane by resolving the forces parallel	Solve problems involving connected particles by considering the particles	Solve more questions involving motion of connected particles on an inclined plane	Calculate the momentum of a particle and impulse of a force	Solve problems involving collisions using the principle of conservation of momentum	To solve more questions on collisions	Tosolve more questions on motion of connected particles from the mixed	Review exercise questions from the previous topics.
YEAR 12	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
	C 2 Module 3 (2)	**C 2 Module 4 (3)**	**C 2 Module 5 (4)**	**C 2 Module 5 (1)**	**C 2 Module 6 (3)**	**C 2 Module 7 (4)**	**C 2 Module 7 (2)**	**C 2 Module 8 (2)**
	EXPONENTIALS &	CO-ORDINATE GEOMETRY IN	THE BINOMIAL EXPANSION	THE BINOMIAL EXPANSION	RADIAN MEASURE AND ITS	GEOMETRIC SEQUENCES	GEOMETRIC SEQUENCES	GRAPHS OF
	Mixed exercise questions. Exam type questions	Finding equation of circle and solving geometric problems using properties of a circle.	Using Pascal's Triangle, Combination and Factorial Notation to expand (a+b)^n.	Mixed exercise questions of binomial expansion.	Finding area of segment of circle	Finding the n th term and sum to n terms and inffinity of geometric series.	Finding the n th term and sum to n terms and inffinity of geometric series.	Exact values and surds for trigonometric functions. Simple transformations.
	C 2 Module 4 (2)	**Rev(1) + TEST(1)**		**C 2 Module 6 (3)**	**C 2 Module 7 (1)**		**C 2 Module 8 (2)**	**Revision(1) + TEST(1)**
	CO-ORDINATE GEOMETRY	Module 1,2,3		RADIAN MEASURE AND ITS	GEOMETRIC SEQUENCES		GRAPHS OF	Module 4,5,6
	Using Mid point and Distance	Review exercise questions and		Using formula to find arc length,	Completing the geometric		sketching the graphs of	Review exercise questions and
	M1 Module 3 (7)				**Rev(1) + TEST(1)**	**M1 Module 4 (7)**		
	STATICS OF A PARTICLE				**Module 3**	MOMENT		
	Solve problems about	To know when to include	To solve statics problems	To solve more questions on	Review exercise questions and	To find the moment of a	Solve problems about	Solve problems about non-
YEAR 12	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
	C 2 Module 9 (4)	**C 2 Module 9 (4)**	**C 2 Module 10 (4)**	**C 2 Module 10 (4)**	**C 2 Module 10 (2)**	**C 2 Module 11(4)**	**C 2 Module 11 (2)**	**Revision(4)**
	DIFFERENTIATION	DIFFERENTIATION	TRIGONOMETRICAL	TRIGONOMETRICAL	TRIGONOMETRICAL	INTEGRATION	INTEGRATION	**C1 and C2 topics for exam**
	Increasing and decreasing functions, Stationary points	Finding stationary points and using the knowledge of turning points to solve problems.	Simple trigonometric identities.	Using trigonometrical identities and using it to solve trig eqns.	Solving quadratic trigonometrical equation	Using integration to find area between a curve and a line	Trapezium rule	Revise topics from C1 C2 and solve past papers
					C 2 Module 11(2)		**C2 TEST(2)**	
					INTEGRATION		**C 2 module test**	
					Simple definite integration		Review exercise questions and C2 full module test.	
	M1 Module 4 (3)		**M1 Module 5 (8)**				**M1 TEST(2)+Rev (1)**	
	MOMENT		VECTORS				(**M1**)Module 3,4,5	
	To solve questions from the mixed exercise on equilibrium of rods under the action of	To solve Problems from the mixed exercise on rods about to tilt about a given point	To solve problems on vectors in I, j notation and find their magnitude and directions	To solve problems involving velocity and time using vectors and the equation r=	To solve more problems using r $=r_0+vt$	Use vectors to solve problems about forces	Review exercise questions and M1 full module test.	Revise topics from M1 and solve past papers

Term 1

Term 2

Term 2

	several forces			r0 +vt				

YEAR 12 LONG TERM PLAN (PURE PURE) with CURRICULUM STANDARDS

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	**C 1 Module 1 (2)**	**C 1 Module 3 (3)**	**C 1 Module 4 (4)**	**C 1 Module 5 (5)**	**C 1 Module 6 (5)**	**C 1 Module 7 (4)**	**C 1 Module 8 (2)**	**C 2 Module 1 (3)**
	ALGEBRA &	EQUATIONS &	SKETCHING CURVES	CO-ORDINATE	SEQUENCES AND	DIFFERENTIATION	INTEGRATION	ALGEBRA AND
	Appling laws of indices. Factorising quadratic expressions. Surds.	Solving one linear one quadratic equations. Solving linear and quadratic inequalities.	Sketching graphs of cubic and reciprocal function. Solving equations from graphs.	Finding equation of straight line using gradient and intercept.	Finding the n th term and sum to n terms of an arithmetic series.	Differentiating a given function and to find equation of tangent and normal to a given curve.	Differentiating a given function and to find equation of tangent and normal to a given curve	Using Factor theorem to factorise a polynomial and using remainder theorem to find the remainder.
	C 1 Module 2 (3)	**C 1 Module 4 (3)**	**Review Exercise 1 (1)**	**C 1 Module 6 (1)**	**C 1 Module 7 (1)**	**C 1 Module 8 (2)**	**Review Exercise 2 (2)**	**C 2 Module 2 (3)**
	QUADRATIC	SKETCHING CURVES	**TEST (1)**	SEQUENCES AND	DIFFERENTIATION	INTEGRATION	**TEST (2)**	SINE AND COSINE
	Solve quadratic equations by completing the square, by quadratic formula. Sketching quadratic graphs.	Sketching graphs of cubic and reciprocal function. Solving equations from graphs		Finding the n th term and sum to n terms of an arithmetic series.	Differentiating a given function and to find equation of tangent and normal to a given curve.	Differentiating a given function and to find equation of tangent and normal to a given curve		Using sine rule and cosine rule to find the missing angle and side. Using Pythagoras Theorem to solve problems and find area of a triangle.
Term 1	**C 1 Module 3 (1)**							
	EQUATIONS &							
	Solving simultaneous equations							

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	**C 2 Module 2 (1)**	**C 2 Module 3 (3)**	**C 2 Module 4 (2)**	**C 2 Module 5 (3)**	**C 2 Module 6 (3)**	**C 2 Module 7 (5)**	**C 2 Module 8 (3)**	**Revision (6)**
	SINE AND COSINE	EXPONENTIAL AND	CO-ORDINATE	THE BINOMIAL	RADIAN MEASURE	GEOMETRIC	GRAPHS OF	
	Using sine rule and cosine rule to find the missing angle and side. Using Pythagoras Theorem to solve problems and find area of a triangle.	Using laws of logarithms, solving equations of the form a^x = b and changing the base of a logarithm.	Using Mid point and Distance formula. Finding equation of circle and solving geometric problems using properties of a circle. **Review Exercise 1(1) and Test (1)**	Using Pascal's Triangle, Combination and Factorial Notation to expand (a+b)^n.	Using formula to find arc length, area of sector and segment.	Finding the n th term and sum to n terms and inffinity of geometric series.	sketching the graphs of sine,cosine and tangent functions .	
	C 2 Module 3 (5)	**C 2 Module 4 (3)**	**C 2 Module 5 (2)**	**C 2 Module 6 (3)**	**C 2 Module 7 (3)**	**C 2 Module 8 (1)**	**Review Exercise 2 (2)**	
	EXPONENTIAL AND	CO-ORDINATE	THE BINOMIAL	RADIAN MEASURE	GEOMETRIC	GRAPHS OF	**TEST (1)**	
	Using laws of logarithms, solving equations of the form a^x = b and changing the base of a logarithm.	Using Mid point and Distance formula. Finding equation of circle and solving geometric problems using properties of a circle.	Using Pascal's Triangle, Combination and Factorial Notation to expand (a+b)^n.	Using formula to find arc length, area of sector and segment.	Finding the n th term and sum to n terms and inffinity of geometric series.	sketching the graphs of sine,cosine and tangent functions .		

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	**C 2 Module 9 (6)**	**C 2 Module 10 (6)**	**C 2 Module 11 (6)**	**C 2 Module 11 (1)**	**C 3 Module 1 (1)**	**C 3 MODULE 2(3)**	**C 3 Module 3 (2)**	**C 3 Module 4 (1)**
	DIFFERENTIATION	TRIGONOMETRICAL	INTEGRATION	INTEGRATION	ALGEBRAIC	FUNCTIONS	EXPONENTIAL AND	NUMERICAL
	Finding stationary points and using the knowledge of turning points to solve problems.	Using trigonometrical identities and using it to solve trig eqns.	Using integration to find area between a curve and a line.	Using integration to find area between a curve and a line. **Review Exercise 2 (2) & Test (1)**	Simplify algebraic fractions using long division and remainder theorem.	Understanding mapping, function, one to one, onto ,domain and its range.Finding inversefunction & sketch it.	Sketching simple transformations of y = e^x & y = ln x.Solving equations involving e^x & ln x.Solving real life examples of exponential growth and	Using iteration method to find an approximation to the root of the eqn f(x) = 0. **Review Exercise 1 (3) & Test (2)**
Term 2				**C 3 Module 1 (2)**	**C 3 Module 2 (5)**	**C 3 Module 3 (3)**	**C 3 Module 4 (4)**	
				ALGEBRAIC	FUNCTIONS	EXPONENTIAL AND	NUMERICAL	
				Simplify algebraic fractions using long division and remainder theorem.	Understanding mapping, function, one to one, onto ,domain and its range.Finding inversefunction & sketch it.	Sketching simple transformations of y = e^x & y = ln x.Solving equations involving e^x & ln x.Solving real life examples of exponential growth and decay.	Using iteration method to find an approximation to the root of the equation f(x) = 0.	

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	C 3 Module 5 (6)	**C 3 Module 6 (6)**	**C 3 Module 6 (3)**	**C 3 Module 7 (6)**	**C 3 Module 7 (3)**	**C 3 Module 8 (5)**	**Review Exercise 2 (2)**	**Revision (6)**

Term 2	TRANSFORMING	TRIGONOMETRY	TRIGONOMETRY	FURTHER	FURTHER	DIFFERENTIATION	TEST (2)	
	Sketching graphs of y = |f(x)|and y = f(|x|).Solving equations involving modulus function.	Sketching the graphs of sec θ, cosec θ and cot θ, solving equations and proving trigonometric identities involving sec θ, cosec θ and cot θ.Sketching inverse	Sketching the graphs of sec θ, cosec θ and cot θ, solving equations and proving trigonometric identities involving sec θ, cosec θ and cot θ.Sketching inverse trigonometric functions	Using addition formulae, double angle formulae and factor formulae.Writing expressions of the form acosθ ±bsinθin the form Rcos(θ±α) and/or Rsin(θ±α).Using all above to solve equations and	Using addition formulae, double angle formulae and factor formulae.Writing expressions of the form acosθ ±bsinθin the form Rcos(θ±α) and/or Rsin(θ±α).Using all	Differentiate trig, exp and ln functions using chain rule, product rule and quotient rule.	**Revision (2)**	
Term 2			**C 3 Module 7 (3)**		**C 3 Module 8 (3)**	**Review Exercise 2 (1)**		
			FURTHER		DIFFERENTIATION			
			Using addition formulae, double angle formulae and factor formulae.Writing expressions of the form acosθ ±bsinθin the form Rcos(θ±α) and/or Rsin(θ±α).Using all above to solve equations and		Differentiate trig, exp and ln functions using chain rule, product rule and quotient rule.			

YEAR 13 LONG TERM PLAN (PURE PURE) with CURRICULUM STANDARDS

YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	**C4 Module 1(4)**	**C 4 Module 2(4)**	**(Contd.)C 4 Module 3(4)**	**C 4 Module 4(4)**	**C 4 Module 5(6)**	**C 4 Module 6(6)**		
	PARTIAL FRACTIONS	O-ORDINATE GEOMETR	BINOMIAL EXPANSION	DIFFERENTIATION	VECTORS	INTEGRATION		
	Express fraction into its partial fractions	Use Parametric equations to find area under a curve	Use Partial fractions to expand more complex fractional expressions	Differentiating relations which are implicit & rates of change	The scalar product of two vectors	Integrate standard functions as antiderivatives & using reverse of the chain rule		
Term 1	**C 4 Module 2(2)**	**C 4Module 3(2)**	**C4 Module 4(2)**	**C 4Module 5(2)**		**C 4 Module 6**		
	CO-ORDINATE GEOMETRY	BINOMIAL	DIFFERENTIATION	VECTORS (2)		INTEGRATION		
	Find cartesian equation from parametric form	Use binomial expansion when n-negative/rational	Find the gradient of a curve whose equation is given in Parametric form	Cartesian components of vectors in 2 D	Find the vector equation of a line	To use trigonometric identities to integrate expressions		

YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	**C 4 Module 6(6)**	**C 4 Module 6(4)**	**C 4 Module Test(2)**	**FP1 Module 2(4)**	**FP1 Module 5(4)**	**FP1 Module 4(4)Contd**		
	INTEGRATION	INTEGRATION		NUMERICAL	SERIES	MATRIX ALGEBRA		
	Use subtitution to integrate expressions	To solve first order differential equations with separable variables	To solve exam style questions	To use interval bisection, linear interpolation and the Newton-Raphson methods to find approximations to solutions	To use standard formulae & sum more complex series	Using Matrices to represent combinations of transformations		
Term 1		**FP1 Module 1(2)**	**FP1 Module 1(4)Contd.**	**FP1 Module 3(2)**	**FP1 Module 4(2)**	**FP1 TEST(2)**		
	INTEGRATION (CONTD)	COMPLEX NUMBERS	COMPLEX NUMBERS	COORDINATE	MATRIX ALGEBRA			
	Use Parts to integrate expressions	To add ,subtract, multiply and divide complex numbers	To find the modulus & argument of a complex number	Work with Cartesian and parametric equations of a parabola & a rectangular hyperbola	To add , subtract & multiply two matrices.	To solve questions 1-5 chapter 4 upto 4.7		
Term 1								
	INTEGRATION		COMPLEX NUMBERS		COMPLEX NUMBERS			
	Find areas & volumes using integration		To solve equations that has complex roots		Using matrices to represent rotations, reflections & enlargements			

YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	FP1 Module 4(4)	**FP1 Module 6(6)**	**FP2 Module 1(3)**	**FP2 Module 3(6)**	**FP-2Module 3(6)**	**FP-2 Module 4(6)**		

Term 2	MATRIX ALGEBRA	PROOF BY	INEQUALITIES	FURTHER COMPLEX	FURTHER COMPLEX NUMBER	FIRST ORDER DIFFERENTIAL		
	To find the inverse of a 2 x2 matrix when it exists	To prove summation of series using induction	Solve modulus & rational inequalities	Use de Moivre's theorem to find roots	Use complex numbers to describe locus & transformations	Solve first order D.E. Using integrating factor		
Term 2	**FP1 Module 4**	**FP1 Module 6**	**FP2 Module 2(3)**	**FP-2 Module 3**	**FP-2Module 3**	**FP2 Module 4**		
	MATRIX ALGEBRA	PROOF BY MATHEMATICAL	SERIES	FURTHER COMPLEX NUMBER	FURTHER COMPLEX NUMBER	FIRST ORDER		
	Use Matrices & their inverses to solve linear simultaneous equations	To use induction to prove an expression is divisible by a certain integer	Sum series using method of differences	Use de moivre's theorm to prove trigonometic identities	Apply transformations from the z-plane to the w-plane	To use a given substitution to reduce a differentiail equation to a familiar form		
Term 2								
		Using induction to prove general statements involving matrix multiplication						
YEAR 13	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 2	FP-2 Module 5(6)	FP-2 Module 5(6)	FP-2 Module 6(6)	FP-2 Module 6(6)	**FP-2 Module 7(6)**	FP-2 Module 7(4) + FP2		
	SECOND ORDER	SECOND ORDER DIFFERENTIAL	MACLAURIN &	MACLAURIN & TAYLORS' SERIES	POLAR CO-	POLAR CO-ORDINATES		
	Solve a second order D.E for different type of roots to the auxiliary quadratic equation	To use boundary conditions to find a specific solution	Express functions as infinite series using Maclaurin & Taylors' expansions	Finding a series solution to a D.E using Taylor series method	Sketch polar curves & find area	To find the equation of tangents parallel & perpendicular to the initial line		
Term 2	FP-2 Module 5(6)							
	SECOND ORDER							
	y= C.F + P.I	Use a given substitution to transform a second order D.E into a familiar form						
Term 2								

YEAR 13 LONG TERM PLAN (PURE APPLIED) with CURRICULUM STANDARDS

Term 1	**C3 Module 1(4)**	**C 3 Module 2(4)**	**(Contd.)C 3 Module 2(2)**	**C 3 Module 3(4)**	**C 3 Module 4(4)**	**C 3 Module 5(4)**		
	ALGEBRAIC	FUNCTIONS	FUNCTIONS	THE EXPONENTIAL & LOG	NUMERICAL METHODS	TRANSFORMING		
	Apply remainder & factor theorem	Understand the terms function, domaim and range	To find the inverse of a funtion & understand the relationship between the graphs of f & inverse	Solve equations involving ex & lnx	Use graphical method to find the number of roots of f(x)=0	Sketch the graph of y= /f(x)/ & y= f(/x/)		
Term 1	**M 2 Module 1(2)**	**C 3Module 2**	**C3 Module 3(2)**	**C 3 Module 3(4)**	**C 3 Module 4**	**C 3 Module 5**		
	KINEMATICS OF A	FUNCTIONS	THE EXPONENTIAL &	EXPONENTIALS & LOGARITHMS	NUMERICAL METHODS	TRANSFORMING GRAPHS OF		
	To solve problems involving motion of projectiles	Combine two or more functions to make a composite function	Sketch simple transformations of y=ex &y= lnx	Solve real life examples of exponential growth & decay	Use iteration to find approximation to the root	Solve equations involving the modulus function		

Term 1			**M2 Module 1(2)**	**M 2Module 1(2)**	**M 2 Module 2(2)**	**M 2 Module 2(2)**		
			KINEMATICS OF A PARTICLE	KINEMATICS OF A	CENTRES OF MASS	CENTRES OF MASS		
		know the difference between a one-one and many to one functions	Solve problems when acceleration varies with time	Use calculus & vectors to solve problems involving motion in two dimensions	Find the centre of mass of a system of particles in two dimensions	Use knowledge of standard results to find centre of mass of a plane lamina		
Term 1		**M 2 Module 1 (2)Contd**						
		KINEMATICS OF A PARTICLE						
		To solve problems involving motion of projectiles						
YEAR 13	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 1	**C 3 Module 5(2)**	**C 3 Test chap 1 - 5**	**C 3 Module 6(4)**	**C 3 Module 6(4)**	**C 3 Module 7(4)**	**C3 Module 7(4)**		
	TRANSFORMING GRAPHS OF		TRIGONOMETRY	TRIGONOMETRY	FURTHER	FURTHER TRIGONOMETRIC		
	Solve equations involving the modulus function	Solve exam style questions from these chapters	To solve equations & prove identities involving sec θ, cosec θ and cot θ	To prove and use the identities 1+ tan2θ= sec 2 θ & 1= Cot2 θ = cosec 2 θ	Prove & Use the addition formulae & double angle formule	Use alternative form to solve trigonometric equations		
Term 1	**M 2 Module 2(2)**	**C3 Module 6(2)**	**M 2 Module 3(2)**	**C3 Module 6**	**M 2 Module 3(2)**	**C 3 Module 7**		
	CENTRES OF MASS	TRIGONOMETRY	WORK, ENERGY & POWER	TRIGONOMETRY	WORK, ENERGY & POWER	FURTHER TRIGONOMETRIC		
	Solve problems involving equilibrium of a lamina suspended or placed on an inclined plane	Sketch the graphs of sec x, cosec x and cot x	To use principle of conservation of energy and the W-E principle to solve problems involving a moving particle	Graph reciprocal & inverse trigonometric functions	Solve problems about moving vehicle including calculating the power developed by its engine.	To prove and apply the factor formulae		
Term 1		**M 2 TEST CHAP 1-2**		**M 2 Module 3(2)**		**M 2 Module 4(2)**		
				WORK, ENERGY & POWER		COLLISIONS		
		Solve exam style questions from these chapters		To use principle of conservation of energy and the W-E principle to solve problems involving a moving particle		Use the impulse- momentum principle & the principle of conservation of momentum in vector form		
YEAR 13	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 2	**C 3 TEST ON CHAP 6,7**	**C 3Module 8(4)**	**C3 Module 8(2)**	**C 4 Module 1(2)**	**C 4 Module 2(4)**	**C 4 Module 3(4)**		
		DIFFERENTIATION	DIFFERENTIATION	PARTIAL FRACTIONS	O-ORDINATE GEOMETF	BINOMIAL		
	Solve exam style questions from these chapters	Differentiate expressions using the product rule and the quotient rule	Apply the various methods of Differentiation	Express fraction into its partial fractions	Sketch the graph of a curve given its Parametric equation	Use binomial expansion when n-negative/rational		
Term 2	**C 3 Module 8(2)**	**C 3Module 8**	**C4 Module 1(2)**	**C 4 Module 2(2)**	**C 4 Module 2**	**C 4 Module 3**		
	DIFFERENTIATION	DIFFERENTIATION	PARTIAL FRACTIONS	CO-ORDINATE GEOMETRY	CO-ORDINATE GEOMETRY	BINOMIAL EXPANSION		
	Differentiate a composite function using the chain rule	Diffedrentiate expressions involving exp, log and trigonometry	Express fraction into its partial fractions	Find cartesian equation from parametric form	Use Parametric equations to find area under a curve	Use Partial fractions to expand more complex fractional expressions		
	M 2 Module 4(2)	**M 2 Module 4(2)**	**M 2 Module 4(2)** +	**M 2 Module 4(2)**	**M2 TEST Chap 4**	**M 2 Module 5(2)**		
	COLLISIONS	COLLISIONS	COLLISIONS	COLLISIONS	COLLISIONS	STATICS OF RIGID BODIES		

Term 2	Apply conservation of momentum & Newton's law of restitution to solve problems involving direct impacts	Apply conservation of momentum & Newton's law of restitution to solve problems involving direct impacts	Model and solve problems involving successive impacts	Model and solve problems involving successive impacts	Solve exam style questions from these chapters	To find the sum of moments of the forces acting on a rigid body		
YEAR 13	**WEEK 1**	**WEEK 2**	**WEEK 3**	**WEEK 4**	**WEEK 5**	**WEEK 6**	**WEEK 7**	**WEEK 8**
Term 2	**C 4 Module 4(4)**	**C 4 Module 4(2)**	**C4 Module 5(4)**	**C 4 Module 6(4)**	C 4 **Module 6(4)**	**C4 Module 6(4)**		
	DIFFERENTIATION	DIFFERENTIATION	VECTORS	INTEGRATION	INTEGRATION	INTEGRATION		
	Find the gradient of a curve whose equation is given in Parametric form	Differentiating relations which are implicit & rates of change	The scalar product of two vectors	Integrate standard functions as antiderivatives & using reverse of the chain rule	Useartial fractions subtitution to integrate expressions	Find areas & volumes using integration		
Term 2	**C 4 Module 4**	**C 4 Module 5(2)**	**C4 Module 5**	**C 4 Module 6**	**C4 Module 6**	**C4 Module 6**		
	DIFFERENTIATION	VECTORS	VECTORS	INTEGRATION	INTEGRATION	INTEGRATION		
	Differentiating relations which are implicit & rates of change	Cartesian components of vectors in 2 D & 3 D	Find the vector equation of a line & to determine whether two lines intersect or not in 3 -D	To use trigonometric identities to integrate expressions	Use Parts to integrate expressions	To solve first order differential equations with separable variables		
Term 2	**M-2 Module 5(2)**	**M-2 Module 5(2)**	**M-2 Module 5(2)**	**M-2 Module 5(2)**	**M-2 REVISION**	**M-2 MODULE TEST**		
	STATICS OF RIGID BODIES	STATICS OF RIGID BODIES	STATICS OF RIGID BODIES	STATICS OF RIGID BODIES				
	To find the sum of moments of the forces acting on a rigid body	To find the sum of moments of the forces acting on a rigid body	Solve problems about the equilibrium of a rigid body	Solve problems about the equilibrium of a rigid body	To solve exam style questions			