

Temperance Term

W/C	1	2	3	4		5	6	7	
Торіс				Number 1				Proportional Reasoning 1	
Core learning for all sets Core learning for sets 1-2	Place Value Write numbers as words and vice versa. Up to 1 billion. State the value of digits within a number. Up to 1 billion. Order numbers. Positive integers up to 1 billion, small numbers (decimals), both ascending and descending. Place numbers on a numberline. Working with measurement scales.	Baseline Assessment	Four operations Addition and subtraction. Column method Multiplication. Column or grid method for secure. Up to 4-digit numbers by 2-digit n Division. Long and short division. formal m Move pupils away from using "remainders Inverse operations for checking calculation	vethod, different number of digits. Borrowing. Squ od for long multiplication. Positive integers. Decimals if digit numbers. Squ rmal methods. Positive integers, decimals if secure. Multiplication. rulations. Create related arithmetic facts. Fact Print BID account Structure		Operties ots. Calculate square and cube not 5.5. Recall square and cube root st.5. Simplify using index notation have powers and roots of any gis s. Identify common multiples of rg. so fa number by listing. Find HC linition of primes. Find and recall idex form. Use the HCF and LCN yers only at this point. Roots and	unbers. Recall square numbers up to 144. Recall up to 12 and 5 respectively. . Calculate positive integer powers higher than 3. en positive number. Itwo or three numbers. Identify the LCM of two or F of two or three numbers. Recap divisibility tests. prime numbers under 100. Spress a number as a of two numbers using prime factorisation and a indices should be included. Insert brackets to make	Fractions Unit fractions. Write unit fractions to describe shaded diagrams. Calculate unit fractions of quantities using written methods. Non-unit proper fractions. Write fractions to describe shaded diagrams. Calculate fractions of quantities using written methods. "Reverse" fractions of quantities. Improper fractions and mixed numbers. Write fractions to describe shaded diagrams. Convert mixed numbers into improper fractions and vice versa.	HALF TERM
	Extension/ Challenge:	Open middle, goal free, e	exam questions, "by exa	ample", SSDD are good resou	irces but alv	ways choose pro	blems based on the current	topic.	
Assessment					Prog	ress Check			
W/C	8	9	10	11		12	13		
Торіс	Assessment 1			Proportional Reasoning	1				
Core learning for all sets Core learning for sets 1-2	Revision and delivery of assessment	Evaluations fractions/simplifying fractions. Use m fractions. Use LW to find common denominator factors (IKG) to simplify fractions to their lowest as a fraction of another. Arithmetic with fractions. Add, subtract, multiply (including fractions with different denominators, mixed numbers). Give answers in simplest form.	utiples to find equivalent for 2 or more fractions. Find terms. Express one quantity and divide fractions improper fractions and, Sharir part to	tio Write a ratio to describe a shaded diagram. Wrige ratios. Use common factors (HCF) to fully simplify r d3-part ratios, as well as ratios with different units. Coi nor nct. Ient ratios. Use multiples to find equivalent ratios. Giver equivalent ratio where one part is given. gi n a given ratio. Use division and multiplication to do th tos.	ratios. Do this for 2- onvert a ratio to a en an initial ratio, this for 2-part and 3-		opportion. Use unitary method where possible to solve wing: best buys, rates of pay, recipes. Ratios, factors ed but the unitary method must be understood. xamples only, to be solved less formally.	CHRISTMAS	
Extensio	on/ Challenge: Open middle								
Assessment	Formal, summative				Progress Check				



Justice Term

W/C	14	15	16		17		18	19	
Торіс	Directed Number	Algebra 1							
Core learning for all sets Core learning for sets 1-2	Directed Number Ordering sets of numbers including negatives, positives, decimals and a mitute. Add and subtract with negative numbers. Multiply and olide with negative numbers. Square and cube negative numbers. Use BIDMAS with the inclusion of negative numbers. Insert brackets to make a calculation correct.	Expressions Forming expression from different situations. The situations should involve addition, subtraction, mu combinations of these. Transhitting algebraic expressions into situations (the re Multiphying algebraic variables and terms. Simplifying expressions using indices. Addition and subtraction of variables, terms and expres Collecting like terms.	tiplication, division, indices and verse of the above skill).	Bracket Multiply a sing Do this with line Multiply two b bracket). Expand two (or and then simpl Taking out the multiplying a b Turning an exp	S le term by a bracket. racketed expressions together and then simplify if possible (in mora) exist of single brackets that are added to or subtracted if the nexult brackets light are added to or subtracted if the nexult brackets light are added to a subtracted highest common factor from an expression, re-writing it as a racket.	sclude squaring a I from each other single term	Substitution Find the value of an expression by s Substitute negative numbers and fry find the value of a variable in a forn Finding the value of the subject (giv Finding the value of any of the varia	ubstitution. Ections (decimals, if confident). uid by substitution of other variables. en the other variables). Dies (given the others).	HALF TERM
	Extension/ Challenge: Ope	n middle, goal free, exam que	estions, "by example", s	SSDD ar	e good resources but always ch	noose prob	lems based on the c	urrent topic.	
Assessment		Progress Check				Pro	ogress Check		
W/C	21	22	23		24		25	26	
Торіс	Assessment 2				Geometry 1				
Core learning for all sets Core learning for sets 1-2	Revision and delivery of assessment	2D shapes Udentify 20 shapes by names. Udentify regular and irregular shapes, polygons and n Udentify and label the properties of 20 shapes. Equal equal angles, right angles, congruency.	an-polygons. ength lines, parallel lines, symmetry,	Perime Calculate the Find side leng Calculate per Calculate the Work with alg Identify, draw Recall definiti Recall the for Calculate the Calculate the	Perimeter Calculate the perimeter of 2D shapes given the lengths of the sides. Find side lengths given the perimeter. Calculate perimeters of composite shapes. Calculate the length of missing sides in rectilinear shapes before calculating perimeter. Work with ratical lengths and perimeters. Work with algebraic expressions and perimeter. Hently, draw and label parts of a cirde. Recall definitions of those parts. Recall the formula for the circumference of a cirde. Calculate the circumference of a cirde given the circumference. Calculate the perimeters of semi and quarter circles.		Area Recall and apply area formulae for squares, rectangles, triangles, parallelograms/hombuses and trapeziums. Calculate the area of composite shapes. Calculate the massing lengths given the area. Calculate the area when given fractional lengths. Express areas when given algebraic expressions for length. Recall the area of a cricef commula. Calculate the area of a cricef commula. Calculate the area area, calculate the radius/diameter. Calculate the areas of semi and quarter circles.		EASTER
	Extension/ Challenge: Ope	n middle, goal free, exam que	estions, "by example",	SSDD ar	e good resources but always ch	noose prob	lems based on the c	urrent topic.	
Assessment	Formal, summative					Pro	ogress Check		



Courage Term

W/C	27	28	29	30	31	31	
Торіс	Geom	etry 1					
Core learning for all sets Core learning for sets 1-2	Surface Area Identify properties and names of 3D shapes. Match nets to shapes. Sketch nets of shapes. Calculate the surface area of cubes and cuboi Calculate the surface area of prisms and cylin Calculate exactly (in terms of pi).	ds. ders	Solving equations Solve 1-step equations by balancing and us Include equations with fractional and/or no Solve 2-step equations by balancing and us Include equations with fractional and/or no Solve equations with multiple sets of single Include equations with multiple sets of single Include equations with fractional and/or no Solve equations with fractional and/or no Solve equations where the variable appear Solve equations with single brackets where	sing inverse operations. egative solutions. sing inverse operations. egative solutions. e brackets. egative solutions. s on both sides. t the variable appears on both sides.	Rearranging formulae Change the subject of simple equations and Change the subject when there are more this Change the subject when everything is a var Change the subject when the intended subject	HALF TERM	
	Extension/ Challenge: Oper	n middle, goal free, exam que	estions, "by example", SSDD ar	e good resources but always ch	hoose problems based on the c	urrent topic.	
Assessment		Progress Check			Progress Check		
W/C	32	33	34	35	36	37	
Торіс	Assessment 3	Alg	ebra 2		Statistics 1		•
Core		Inequalities		Data collection	Representing data (univariate)	Representing data (bivariate)	
learning for all sets Core learning for sets 1-2		Writing and interpreting single and double Identifying integers that satisfy an inequali Solve 1- and 2-step inequalities. Represent the answers on a number line. Interpret inequalities on a number line.	inequalities. ty.	Distinguish between quantitative and qualitative, discrete and continuous, grouped and ungrouped. Lidentify categorical data. Distinguish between primary and secondary data. Interpret and create tally charts and frequency tables. Complete a partially filled in two-way table. Construct and complete a two-way table from given information. Read frequencies from a two-way table. Complete a partially filled in frequency tree. Construct and complete a frequency tree from given information. Read frequencies from a frequency tree.	Used for categorical data. Interpret and construct pictograms. Complete partially filled in pictograms. Bar charts are used for categorical data. Vertical line charts are used for ungrouped discrete data. Construct, complete and interpret bar charts and vertical line graphs from frequency tables. Do the same with dual bar charts and composite bar charts. Interpret and describe trends in a time series graph. Construct a time series graph with given data	Construct scatter graphs from given bivariate data. Describe the relationship between two variables (if any). Identify the type of correlation (if any). Identify data points that do not fit the general pattern. <u>LOBF and predictions</u> Draw an estimated line of best fit (linear only). Use interpolation and extrapolation to predict.	SUMMER



Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.						
Assessment	KS3 Internal Exams			Progress Check		