

Temperance Term

W/C	1	2 3		4	5	6	7	8				
Topic	•	Assessment 1										
Core learning for all sets Core learning for sets 1-2	Place value and rounding Write decimal numbers as words and vice versa. State the value of digits in decimal numbers. Order decimal numbers (ascending and descending). Round to the nearest 10, 100, 1000 etc. Round to the nearest 10, 100, 1000 etc. Round to the nearest integer. Round to decimal places and significant figures. Truncating.	te decimal numbers as words and vice versa. Column method for addition and subtraction of decimal numbers. Wiltiply and divide decimals by 10, 100, 1000 etc. Column method/grid method for long multiplication of decimals. Column method/grid method for long multiplication of decimals. Column method/grid method for long multiplication of decimals, formal methods. Use formal division method to convert fractions to decimals. Convert recurring decimals into fractions. Use formal division method to convert fractions to decimals. Convert engage and spindivisions or check calculations. Creater related fasts regarding a calculation.			Standard form Recall and calculate square, cube and higher powers of 10. Identify the pattern with powers of 10. Identify the pattern with powers of 10 (within the context of the pattern). Convert standard form numbers into ordinary form. Write large and small numbers is instandard form. Briefly revise index laws using powers of 10. Multiplication of numbers in standard form using the commutative law. Division of numbers in standard form wing the commutative law. Adjust answer to be in standard form if not already. Add and subtract numbers in standard form by converting, calculating, and converting back. Add and subtract numbers in standard form by converting, the numbers to the same power first.			Revision and delivery of assessment	HALF TERM			
	Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.											
Assessment			Progress Check					Formal, summative				
W/C	9	9 10 11 12				:	14					
Topic	Algebra 3 Topic											
Core learning for all sets Core learning for sets 1-2	Rules and functions Continue sequences and patterns using observation. Continue a numerical sequence using common differ differences as a term-to-term rule. Find missing terms in the middle of a sequence. Find missing terms in the middle of a sequence. Use a position-to-term rule (rith term) to generate a s Will a given number be in a given sequence? Use character of the continue of the continue and flowcharts. Find inputs for given sequential inputs. Find inputs for given sequential inputs. Find the pappropriate inverse function for any given fur Find a composite function for two given functions and	ction. sequence. acteristics of the sequence to assess this. inction. suse function notation.	Linear sequences Find the nth term of an ascending arithmetic sequence. Find the nth term of a descending arithmetic sequence. Include diagrammatic patterns. Using nth terms to generate a sequence. Using the terms to generate a sequence. Using the terms to find a specific term of a sequence. Using the term to assess whether a number is in a given sequence. Include diagrammatic patterns. Finding the nth term of a factional sequence where the numerator and the denominator of the nth term are linear. Using a factional inth term to generate terms and sequences. Using in therm and ruction skills to create a table of coordinates for a linear function. Plotting linear functions on four-quadrant axes using tables for coordinates. 5, "by example", SSDD are good resources but always a sequence of the sequence of		Non-linear sequences Identify and recall the sequence of square, tube and triangular numbers. Relate these sequences to their diagrammatic representations. Recognise, describe, and continue a Fibonacci-type sequence given the first terms. Recognise, describe, and continue sequences where the power is n and the base is 2, 3, 4, 5 or 10. Identify the nth term of these simple sequences. Identify quadratic sequences by their common second difference. Find the nth term of simple quadratic sequences such as n°2 + 5 or 3n°2.			CHRISTMAS				
Extensio												
Assessment		Progress Check			Progress Check							



Justice Term

W/C	15	16	17		18		19	20		
Topic	Geometry 2 Assessment 2									
Core learning for all sets Core learning for sets 1-2	Constructions Accurately measure and draw line segments. Accurately measure and draw angles. Accurately measure and draw angles. Accurately draw ASA and ASA triangles. Construct a Circle with a given radius or diameter. Construct a perpendicular line bisector. Construct a perpendicular line a point to a line. Construct a perpendicular at any point on a line. Construct a perpendicular at any point on a line. Construct and perpendicular from a point to a line. Construct and perpendicular at any point on a line. Construct angle bisectors. Interpret scales to calculate distances on maps. Draw diagrams correct to a given scale. Understand compass points. Measure and record bearings.	Properties les. les. les. coint. traight line. posite angles. angles. for this where possible. allel lines: gles. ge angles. angles. where possible. riterior) angles. angles. where possible. ry triangles. or different types of triangle. or gades in triangles. ry quadrilaterals. es. so special quadrilaterals. es. for angle sums. setterior angles.	Pythagoras' theorem Refresh knowledge of integer powers and roots. Focus on squares and square roots. Calculate the hypotensus of a right-angled triangle given the other two sides. Calculate the shorter side of a right-angled triangle given the other two sides. Calculate any missing sides of a right-angled triangle. Use Pythagoras' theorem with compound shapes. Find the height of an isosceles or equilateral triangle.			Revision and delivery of assessment	HALF TERM			
	Extension/ Challenge: Oper	n middle, goal free, exam quo	estions, "by example", SS	SDD are good re	sources but always ch	noose probl	ems based on the c	urrent topic.		
Assessment		Progress Check						Formal, summative		
W/C	21	22	23		24	25		26		
Topic	Geometry 2	Algebra 4								
Core learning for all sets Core learning for sets 1-2	See above	Coordinates and plotting Draw, bbel and scale axes properly, Identify the origin, x-axis and y-axis. Understand how to write coordinates Plot any coordinate. Complete a shape on axes by Identifying missing coo Identify midpoint coordinates. Given the midgooth find the other end. Find any proportional point along a line.	x and y = x decap knowledge of input/output alculate outputs for two-step fu freate a table of values for an ex lot linear, quadratic and cubic c olot, recognise and understand e dentify/calculate gradients. Dra dentify y-intercepts. Find the equation of a line using	for vertical and horizontal lines. = xx			r equations using intersecting lines on a graph. r simultaneous equations. r and non-linear simultaneous equations.	EASTER		
Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.										
Assessment		Progress Check			Progress Check					



Courage Term

27	28	29		30		31			
Algebra 4									
See above Extension/ Challenge: Oper	Convert decimals greater than 1 to improp numbers. Convert fractions to terminating decimals denominators of 10, 100, 1000, etc. Convert fractions to terminating decimals: Convert fractions into recurring decimals used the convert fractions into recurring decimals used to the convert fractions of the conversion convert decimals to percentages and simp convert decimals to percentages and vice than 1). Express one quantity as a percentage of an expectage of a recreating of a mounts (non-calculator) because increase/decrease (non-calculator) because increase/decrease (non-calculator) because the convertigation of the convertigati	using equivalent fractions with using division skills. Using divisio	Calculate percentage increase/decrease using a decimal multiplier. Pupils should be doing this in ONE multiplication in the calculator. Calculate the original value given the value after a percentage increase/decrease. Given two values find the percentage increase/decrease that has occurred. Calculate the original value given the value after a percentage increase/decrease that has occurred.				th with and without a calculator. t without a calculator (limited to 3 or 4 years). t with one multiplication on a calculator.	HALF TERM	
	Progress Check Progress Check								
32	33	34	35			36	37		
Proportional Reasoning 2									
See above	Identify members of sets given description Describe sets given the elements. Create Venn diagrams from given informat Identify parts of a Venn diagram such as in complements. Enumerate sets and then create a Venn dia	is. tion. tersections, unions and agram from given information.	Single events What is probability? Expressing probability. Probability scales. Calculating probabilities from Venn diagrams. Enumerate sets, create a Venn diagram and then calculate probabilities. Use complementary probabilities. Calculate the probabilities based on flipping coins, rolling dice and spinning spinners. Use theoretical probability of equally likely outcomes to calculate these probabilities. Calculate expected frequencies of the above events. Carry out experiments with dice and/or coins and calculate relative frequencies. Calculating probabilities based on survey/experimental data. Find probabilities from bar charts or pictograms.		Combined events Listing outcomes systematically with and without repeats being allowed. Sample space diagrams Frequency trees Complete two-way tables. Create and complete two-way tables from given information. Calculate probabilities from two-way tables. Calculate the number of outcomes for two events. Calculate the number of outcomes for more than two events.		SUMMER		
	Algebra 4 See above Extension/ Challenge: Oper 32 Proportional Reasoning 2	Algebra 4 FDP Equivalence Revise place value skills. Identifying the value of digits in numbers. Ordering numbers. Powers of 10. Recall basic F to D/ D to F conversions. Converting decimals to fractions and simp Convert decimals greater than 1 to impron numbers. Convert fractions to terminating decimals denominators of 10, 100, 1000, etc. Convert fractions to terminating decimals convert fractions to terminating decimals denominators of 10 to 100, 1000, etc. Convert fractions to terminating decimals convert fractions to terminating decimals convert fractions into recurring decimals to convert percentages. Recall basic P to F/F to P conversion Convert percentages to fractions and simp Convert decimals to percentages and vice than 1). Express one quantity as a percentage of an Percentages of amounts (non-calculator) Percentage increase/decrease (non-calculator) Percentage increase/decrease (non-calculator) Percentage increase/decrease (non-calculator) Percentage increase/decrease (non-calculator) Percentages of amounts (non-calcul	Algebra 4 FDF Equivalence Revise place value skills. Identifying the value of digits in numbers. Ordering numbers. Powers of 10. Recall basic F to D/D to F conversions. Converting decimals to fractions and simplifying where possible. Convert decimals greater than 1 to improper fractions and mixed numbers. Convert fractions to terminating decimals using equivalent fractions with denominators of 10, 100, 1000, etc. Convert fractions to terminating decimals using equivalent fractions with denominators of 10, 100, 1000, etc. Convert fractions into necurring decimals using division skills. Convert fractions into	Algebra 4 FOP Equivalence Revise place value skills. Identifying the value of dights in numbers. Ordering numbers. Powers of 10. Recall basic Fto 0// D to Fconversions. Convert fractions to terminating decimals using equivalent fractions with denominators of 10, 100, 100, etc. Convert fractions to terminating decimals using division skills. Convert fractions into recurring decimals using division skills. Convert percentages to fractions and simplify where possible. Convert fractions into recurring decimals using division skills. Convert percentages of amounts from calculator by finding 10%, 5%, 1% etc. first. Percentage increase/decrease (non-calculator) finding 10%, 5%, 1% etc. first. Percentage increase/decrease (non-calculator) with the above method followed by adding or subtracting. Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are Progress Check 32 See above Set notation and Venn diagrams Organise information into sets using set notation. Identify members of sets given descriptions. Describe sets given the elements. Create Venn diagrams from given information. Identify and understand mutual exclusivity in the context of Venn diagrams and sets. Single ever What is proposed to the context of Venn diagrams and sets.	Algebra 4 FOP Equivalence Revise place value skills. Identifying the value of digits in numbers. Ordering numbers. Powers of 10. Recall basic F to 0/D to F conversions. Convert fractions to terminating decimals using division skills. Convert fractions to terminate the skills are prostated to the skills. Beryles definition of percentage. Recall basic F to F/to IV Conversions Convert decimals to the value after a percentage increase/decrease that occurred. Brevite definition of percentage. Recal basic F to F/to IV Conversions Converted termination of the skills are prostated to the skills are prostated to the skills are prostated to the value after a percentage of another. Proceedings of the skills are prostated to the value after a percentage of another. Progress Check See above Set notation and Venn diagrams Organise information into sets using set notation. Identify parts of a Venn diagrams from give	Algebra 4 FDF Equivalence Recise jacker with existing the state of the properties of the properti	Algebra 4 Proportional Reasoning 2 Repeated proportional Algebra 4 Repeated proportional Algebra	Algebra 4 Proportional Reasoning 2 See above Proportional Reasoning 2 Proportional Reasoning 3 Proportional Reasoning 4 Proportional Reasoning 4 Proportional Reasoning 5 Proportional Reasoning 6 Proportional Reasoning	



Assessme	nt			
	KS3 Internal Exams		Progress Check	