

## Temperance Term

W/C	1	2	3 4		5	6	7					
Торіс		Assessment 1										
Core learning for all sets Core learning for sets 1-2	Calculations and estimations           Column method for addition and subtraction of decimal numbers.           State the value of digits in decimal numbers.           Order decimal numbers (ascending).           Round to the nearest integr.           Round to decimal places and significant figures.           Truncating.         Column method for addition methods.           Use formal divide decimals by 10, 100, 1000 etc.           Column method for addition method condom of decimals.           Round to the nearest integr.           Round to decimal places and significant figures.           Truncating.           Use formal divide decimals for an underted facts regarding a calculation.           Estimes answers to calculations of orare enlated facts regarding a calculation.           Consider hot to creat the larger or smallest: sum, produce. Underess simple error intervals with inequality notation.           Use upper and lower bounds to calculate maximum and minimum possible values.           Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good			Reca dentify Finite of the second s	andard form and alculate square, cube and higher powers of 10 tify the pattern with powers of 10. Within the vert standard form numbers instandard form. le arge and small numbers in standard form using the com- ising and the site site standard form using the com- ison of numbers in standard form using the com- sion of numbers in standard form with the com- standard torm. Is tandard form find talready. and subtract numbers in standard form by adjusting the uncers but alwayss choose porce	context of the pattern). mutative law. calculating, and converting back. ne numbers to the same power first.	Revision and delivery of assessment	HALF TERM				
	Extension/ challenge.	open middle, goarnee, ex					topic.					
Assessment			Progress Check				Formal, summative					
W/C	8	9	10	11	12	13						
Торіс	Algebra 3											
Core learning for all sets Core learning for sets 1-2	Rules and functions Continue a numerical sequence using common differ differences as a term-to-term rule into a nupul-otput put Find missing terms in the middle of a sequence. Turn a position-to-term rule into in inpul-otput put Use a position-to-term rule into sequence? Use chu Work with function machines and flowcharts. Find outputs for given oxputenti inputs. Find houghs for given acquenti inputs. Find the appropriate inverse function for any given fi Find a composite function for two given functions an	ences and describe those common nction. sequence. sequence to assess this. unction. d use function notation.	Linear sequences Find the nth term of a ascending arithmetic sequence. Find the nth term of a descending arithmetic sequence. Include diagrammatic patterns: Using nth terms to generate a sequence. Using the nth set find a specific term of a sequence. Using the nth term to assess whether a number is in a given sequence. Include diagrammatic patterns: Finding the nth term of a fractional sequence where the numerator and the denominator of the nth term to generate terms and sequences. Using tractional nth term to generate terms and sequences. Using a fractional on therm to generate terms and sequences. Using in terms and function skills to create a table of coordinates for a linear function. Plotting linear functions on four-quadrant axes using tables for coordinates.		their diagrammatic representations. Recognise, describe, and continue a Fibonacci-ty Recognise, describe, and continue sequences wh Udentify then therm of these simple sequences. Identify quadratic sequences by their common s Find the nth term of simple quadratic sequences	ere the power is n and the base is 2, 3, 4, 5 or 10. cond difference. such as n <sup>2</sup> 2 + 5 or 3n <sup>2</sup> 2.	CHRISTMAS					
Extensio	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							



### **Justice Term**

W/C	14	15	16		17	18	19		
Торіс	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 draw ASA and ASA triangles. Construct a circle with a given radius or diameter. Construct a sperindicular line bisector. Construct a perpendicular rat any point on a line. Construct a perpendicular of any a point to a line. Construct a perpendicular of any a point to a line. Construct a perpendicular of any point on a line. Construct a perpendicular of any solito. Interpret scales to calculate distances on maps. Draw diagrams correct to a given scale. Understand compass points. Measure and record bearings.	Types of angl Angles on a Vertically poy Find missing. Use algebra f Angles in par Angles in par Atternate angle Atternate angle Atternate angle Atternate angle Angle sum fo Angle rules f Finding missing angle sum fo Angle rules f Missing angle Angles angle Angles Angle angle Angles Angle angle Angles Angle Angles Angle angle Angles Angles Angle angle Angles Angle angle Angles Angle Angles Angle Angles Angle A	oint. sosite angles. angles. or this where possible. allel lines: Jes. ge angles. Interior) angles. margies. where possible. triangles. or different types of triangle. or gangles in triangles. requadrilaterals. to special quadrilaterals. Is. So, Gons up to 10 sides. for angles sums. Sterior angles.		Pythagoras' theorem Refresh knowledge of integer powers and roots. Focus on squares and square roots. Calculate the hypotenuse of a right-angled triangle given the other two sides. Calculate any missing sides of a right-angled triangle. Use pythageness theorem with compound shapes. Find the height of an isosceles or equilateral triangle.		Revision and delivery of assessment	HALF TERM	
Assessment	Extension/ Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.								
, issessment		Progress Check					Formal, summative		
W/C	21	22	23		24	25	26		
Торіс	Geometry 2 Algebra 4								
Core learning for all sets Core learning for sets 1-2	See above	Coordinates and plotting Draw, label and scale area groperly. Identify the origin, x-axis and y-axis. Understand how to write coordinates Plot any coordinate. Complete a shape on axes by identifying missing cool identifyi migopinic coordinates. Given the midpoint find the other end. Find any proportional point along a line.	r, label and scale ares properly. Equations for ver strand how to write coordinates Recap knowledge and the strange of the st			horizontal lines. Find approximate solutions of lines Find approximate solutions for lines Find approximate solutions for lines an equation and then plot the equation on the axes. buic equations. Recognise and understand their shapes. Land exponential and reciprocal graphs. 5. Draw lines of given gradients. using gradient and y-intercept. and y-intercept.		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	31		
Algebra 4		Proportional Reasoning 2							
See above Extension/ Challenge: Open	Convert decimals greater than 1 to improgrammbers. Convert fractions to terminating decimals denominators of 10, 100, 1000, etc. Convert fractions to terminating decimals in the second	ver fractions and mixed using equivalent fractions with using division skills. using division skills. wersa division skills. versa (including quantities larger nother. y finding 10%, 5%, 1% etc. first. ator) with the above method	Percentages as operators Identify the decimal multiplier given a percentage. Calculate the percentage of an amount using the decimal multiplier (calculate or allowed). 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. SSDD are good resources but always choose prob			Repeated proportional change Calculate simple interest both with and without a calculator. Calculate compound interest without a calculator (limited to 3 or 4 years). Calculate compound interest with one multiplication on a calculator.		HALF TERM	
	Progress Check				Pr	ogress Check			
32	33	34	35			36 37			
Proportional Reasoning 2	Statistics 2								
See above	Identify members of sets given description Describe sets given the elements. Create Venn diagrams from given informa Identify parts of a Venn diagram such as in complements.	is. tion. itersections, unions and agram from given information.	What is prol Expressing p Probabilitys Calculating p Enumerate : Use comple Calculate th spinning spi Use theoret probabilities Calculate ex	Vhat is probability? xpressing probability. robability scales. alculating probabilities from Venn diagrams. alculating probabilities from Venn diagram and then calculate probabilities. se complementary probabilities. alculate the probabilities based on flipping coins, rolling dice and pinning spinners. se theoretical probability of equally likely outcomes to calculate these		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         See above       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. Convert fractions to terminating decimals convert decimals to fractions and simp Convert decimals greater than 1 to improp numbers.         Convert fractions to terminating decimals convert fractions to terminating decimals convert fractions to terminating decimals convert fractions to terminating decimals convert fractions into recurring decimals to convert fractions into recurring decimals to convert fractions into recurring decimals to convert percentages to fractions and simp Convert decimals to percentage. 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 Percentage intreases/decrease (non-calcul followed by adding or subtracting.         Extension/ Challenge: Open middle, goal free, exam que 32       33         Proportional Reasoning 2       See above         See above       Set notation and Venn diagrams Organise information into sets using set no Identify members of sets given description Describe sets given the elements.	Algebra 4         See above       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 simplifying where possible. Convert fractions to terminating decimals using equivalent fractions with denominators of 10. 100, 1000, etc.         Convert fractions into terminating decimals using division skills. Convert fractions into recurring decimals using division skills. Convert fractions into recurring decimals using division skills. Convert fractions to terminating decimals using division skills. Convert fractions to percentage and vice versa (including quantities larger than 1). Expression equantity as a percentage of another. Percentage of amounts (non-calculator) with the above method followed by adding or subtracting.         Extension/ Challenge: Open middle, goal free, exam questions, "by example", 32         32       33       34         Proportional Reasoning 2       Organise information into sets using set notation. Identify members of sets given descriptions. Describe sets given descriptions. Describe sets given descriptions.	Algebra 4     Prof Equivalence       See above     FDP Equivalence       Revise place value skills. Identifying the value of digts in numbers. Ordering numbers. Powers of 10.     Percentage       Recall basic F to D/ D to F conversions. Converting decimals to fractions and simplifying where possible. Convert fractions to terminating decimals using division skills.     Calculate to pupils shou calculate to calculate to calculate to convert fractions to terminating decimals using division skills.     Calculate to increase/dt calculate to calculate to calculate to convert fractions to terminating decimals using division skills.     Calculate to calculate t	Algebra 4       Proportional Reasoning 2         See above       FOP Equivalence Prever place value allis. Undertifying the value of digits in numbers. Ordering numbers. Deverse of to.       Percentages as operators         Recat basic for 0/0 to convertions. Convert fractions to terminating detimals using equivalent fractions with Convert fractions to terminating detimals using dwision stills. Convert fractions to terminating detimals using dwision stills.       Calculate preventage increase/decrease the convert fractions to terminating detimals using dwision stills.         Convert fractions to terminating detimals using dwision stills.       Convert fractions to terminating detimals using dwision stills.         Convert fractions to terminating detimals using dwision stills.       Convert fractions to terminating detimals using dwision stills.         Convert fractions to terminating detimals using dwision stills.       Convert fractions to terminating detimals using dwision stills.         Convert fractions to dwising or ubscription.       Percentages of another.       Percentages of another.         Percentages of another.       Percentages of another.       Percentage	Algebra 4     Proportional Reasoning 2       See above     FOR Equivalence Revise place value stills. Userstrip decrease User of Statistics and simplifying where possible. Convert fractions to terminating decrematic user actions and simplifying where possible. Convert fractions to terminating decremate user actions and simplifying where possible. Convert fractions to terminating decremate user actions and simplifying where possible. Convert fractions to terminating decremate user actions and simplifying where possible. Convert fractions to terminating decremate user actions and simplifying where possible. Convert fractions to terminating decremate user actions and simplifying there possible. Convert fractions to terminating decremate user actions and simplifying there possible. Convert fractions to terminating decremate user actions and simplifying there possible. Convert fractions to terminating decremate user actions and there actual user. Convert fractions to terminating decremate user actions and there actual user. Convert fractions to terminating decremate user actions and there actual user activities user activities user activities activities user activities actit activities activities activities	Algebra 4         Proportional Reasoning 2           See above         Printing structure thing structure biological structure of charge printing the structure of egis in numbers. Driver a 1d.         Presentage is operators the structure of egis in numbers. Driver a 1d.         Presentage is operators the structure of egis in numbers. Driver a 1d.         Presentage is operators the structure of egis in numbers. Driver a 1d.         Presentage is operators the structure of egis in numbers. Driver is 1d.         Presentage is operators the structure of egis in numbers. Driver is 1d.         Presentage is operators the structure of egis in numbers. Driver is 1d.         Presentage is operators the structure of egis in numbers. Driver is 1d.         Presentage is operators the structure of egis in numbers. Driver is 1d.         Presentage is operators the structure of egis in numbers. Driver is 1d.         Presentage in numbers. Driver is 1d.         Presentage in numbers. Driver is 1d.         Driver is 1d.	27     28     29     30     31       Algebra 4       See above     for Gastelence Methods and Methods an	



Assessme	KS3 Internal Exams		Progress Check	
			0	