	04/09/2023	11/09/2023	18/09/2023	25/09/2023	02/10/2023	09/10/2023	16/10/2023	23/10/2023
Week commencing	1	2	3	4	5	6	7	8
Topic overview		Calculation, rounding and estimation Factors, multiples and primes. Directed (negative) numbers Powers; indices, standard form		s, standard form	Catch-up, repair, revise, assess.	Algebra; notation and substitution		
Skill specific	Teachers choice. Pick a lesson/topic/skill you most like to teach in order to build relationships with your class. Aim for accessible skills which will deliver success to students. Frequency trees, 2-way tables, Venn diagrams is a good example.	<ul> <li>Rounding to decimal places and significant figures.</li> <li>Estimation and approximation.</li> </ul>	<ul> <li>Factors, multiples, and primes.</li> <li>Product of prime factors.</li> </ul>	<ul> <li>Order positive and negative integers, decimals and fractions (use the symbols =, ≠, , ≤, ≥).</li> <li>Four operations with negative numbers.</li> </ul>	<ul> <li>Index rules (numerical and intro to alg</li> <li>Zero, negative and fractional indices.</li> <li>Fractions and indices (inc. reciprocals)</li> <li>Complex index laws questions (conversional conversional conversional conversional conversional conversional conversional conversional conversional conversional questions.</li> </ul>	i. t all terms to same base). m.	Assessment week. 1 x non-calculator paper (50 mins) 1 x calculator paper (50 mins) Mix of all skills taught to date.	<ul> <li>Terms, expressions, equations, identities.</li> <li>Substitute into expressions and formulae.</li> </ul>
Assessment	Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check		Knowledge check
Home learning	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)		Guided Kcheck (30mins
	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)		SPARX (60mins)

## OCT HALF TERM

	06/11/2023	13/11/2023	20/11/2023	27/11/2023	04/12/2023	11/12/2023	18/12/2023
Week commencing	9	10	11	12	13	14	15
Topic overview	Algebra; manipulation 01	Algebra; manipulation 02		Algebra; solving equations 01	Inequalities	Catch-up, repair, revise, assess.	Rearranging expressions and formulae
Skill specific	- Collect like terms. - Multiply and divide terms. - Simplify using laws of indices.	- Expand double bracke - Factorise si - Factorise double bra	ngle brackets.	<ul> <li>Solve linear equations.</li> <li>Single step, 2-step, variable on both sides, brackets, fractions.</li> <li>Form and solve equations from context.</li> </ul>	<ul> <li>Inequalities on and from a number line.</li> <li>List integer outcomes.</li> <li>Solve linear inequalities (two and 3 part).</li> <li>Represent solutions on number line, list, algebraically.</li> </ul>	Assessment week. 1 x non-calculator paper (50 mins) 1 x calculator paper (50 mins) Mix of all skills taught to date.	<ul> <li>Change the subject (language; e.g. x in terms of y).</li> <li>Subject appears twice (factorising).</li> </ul>
Assessment	Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check		Knowledge check
Home learning	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)		Guided Kcheck (30mins)
nome learning	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)		SPARX (60mins)

## CHRISTMAS HOLIDAYS

	08/01/2023	15/01/2023	22/01/2023	29/01/2023	05/02/2023
Week commencing	16	17	18	19	20
Topic overview	Algebra; manipulation 03 Rearranging expressions and formulae	Algebra; solving equations 02 Quadratic equations	Area and	volume 01	Catch-up, repair, revise, assess.
Skill specific	<ul> <li>Change the subject (language; e.g. x in terms of y).</li> <li>Subject appears twice (factorising).</li> </ul>	factorising (a = 1 and a ≠ 1). - Context (geometry focus).	- Perimeter and area of - Calculate missing va - Perimeter and area	inear, area, volume). rectangles and triangles. lues (form and solve). of compound shapes. am (find area, find dimensions, etc.).	Assessment week. 1 x non-calculator paper (50 mins) 1 x calculator paper (50 mins) Mix of all skills taught to date.
Assessment	Knowledge check	wledge check Kno	wledge check Kno	wledge check	
Home learning	Guided Kcheck (30mins)	Kcheck (30mins) Guided	Kcheck (30mins) Guided	Kcheck (30mins)	
nome learning	SPARX (60mins)	RX (60mins) SP/	ARX (60mins) SP/	ARX (60mins)	

## FEB HALF TERM

	19/02/2023	26/02/2023	04/03/2023	11/03/2023	18/03/2023	
Week commencing	21	22	23	24	25	
Topic overview		Area and volume: circles, spheres, etc.	Angles			
Skill specific	<ul> <li>Calculate circumference. Decimal and</li> <li>Calculate radius/diameter given circun</li> <li>Calculate area. Decimal and in terms of</li> <li>Calculate radius/diameter given area.</li> <li>Semicircle and sector perimeter (arc le</li> <li>Mixed area and perimeter questions.</li> <li>Volume and S.A. of sphere, pyramid, c</li> <li>Volume of S.A. of compound shapes.</li> </ul>	nference. If pi. ength) and area.	<ul> <li>Prior knowledge check.</li> <li>Line, point, triange, special triangles, pacial triangles, pagebra focus; form and solve equation</li> <li>Angles in polygons; interior, exterior, s</li> </ul>	ns.		
Assessment	Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check	
Home learning	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	
	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	

## EASTER HOLIDAYS

	08/04/2024	15/04/2024	22/04/2024	29/04/2024	06/05/2024	13/05/2024	20/05/2024	
Week commencing	26	27	28	29	30	31	32	
Topic overview	Catch-up, repair, revise, assess.			y = mx + c			Catch-up, repair, revise, assess	
Skill specific	Assessment week. 1 x non-calculator paper (50 mins) 1 x calculator paper (50 mins) Mix of all skills taught to date.		<ul> <li>Prior knowledge check.</li> <li>Horizontal and vertical lines (y = a / x = a).</li> <li>Midpoint of a line.</li> <li>Gradient and y-intercept from y=mx+c.</li> <li>Rearranging y=mx+c.</li> <li>Plotting graphs (using; y=mx+c, table of values, gradient plus x and y intercepts).</li> <li>Find equation given gradient and one point.</li> <li>Calculate gradient given 2 points.</li> <li>Find equation given two points.</li> <li>Equations of parallel and perpendicular lines.</li> <li>Points of intersection.</li> </ul>					
Assessment		Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check		
Home learning		Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)		
		SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)		

MAY HALF TERM

	03/06/2024	10/06/2024	17/06/2024	24/06/2024	01/07/2024	08/07/2024	15/07/2024
Week commencing	33	34	35	36	37	38	39
Topic overview	Equation of a circle	Completing the square	Graphs of qua	dratic functions	Graphical inequalites	Real-life graphs	Catch-up, repair, revise, assess.
Skill specific	- Equation of a circle. - Tangents to circles.	<ul> <li>Completing the square a = 1.</li> <li>Completing the square a ≠ 1.</li> <li>Complete the square and solve.</li> </ul>	<ul> <li>Prior knowledge check.</li> <li>Sketch; roots, y-intercept.</li> <li>Turning point (complete the square).</li> <li>Estimate solutions from graph; y=0, y#</li> <li>Solving quadratics graphically (given a</li> </ul>		- Relating to y=mx+c. - Find regions. - Quadratic ineqaulities.	<ul> <li>Velocity from distance-time graph.</li> <li>Determine the acceleration from a velocity-time graph.</li> <li>Determine the exact distance from a velocity-time graph.</li> <li>Estimate distance from a curved velocity-time graph by use of trapeziums.</li> </ul>	Assessment week. 1 x non-calculator paper (50 mins 1 x calculator paper (50 mins) Mix of all skills taught to date.
Assessment	Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check	Knowledge check	
Home learning	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	Guided Kcheck (30mins)	
nome rearring	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	SPARX (60mins)	