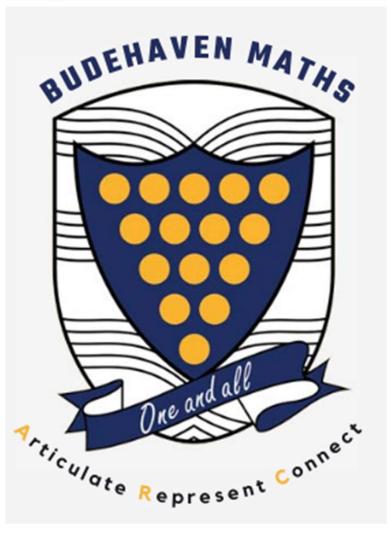


Sparx Maths



Year 7 | Scheme of Learning | Sparx Maths Codes



Autumn | Half Term 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
WB	4/9/23	11/9/23	18/9/23	25/9/23	2/10/23	9/10/23	16/10/23
	Unit 1: Sequences			Algebraic ation		quality & alence	Consolidation

Autumn | Half Term 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
WB	30/10/23	6/11/23	13/11/23	20/11/23	27/11/23	4/12/23	11/12/23	18/12/23
	Unit 4: Place value & ordering integers & decimals			Unit 5: Fract	ion, decimal & equivalence	percentage	· ·	sessment & back

Spring | Half Term 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
WB	8/1/24	15/1/24	22/1/24	29/1/24	5/2/24	12/2/24
		ddition & action	Unit 7: M	ultiplication an	d division	Unit 8: Fractions & percentages

Spring | Half Term 4

	Week 1	Week 2	Week 3	Week 4	Week 5
WB	26/2/24	4/3/24	11/3/24	18/3/24	25/3/24
		erations & equi		Addition & of fractions	

Summer | Half Term 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
WB	15/4/24	22/4/24	29/4/24	6/5/24	13/5/24	20/5/24
		onstructing, m geometric not	•	Unit 12:	Developing ge reasoning	eometric

Summer | Half Term 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
WB	3/6/24	10/6/24	17/6/24	24/6/24	1/7/24	8/7/24	15/7/24
	Unit 13: Developing number sense			Sets and ability	Unit 15: Prir	ne numbers	Consolidation

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-	V	X	
3001	-		ann.

Weeks 1 & 2	Unit 1: Sequences					
	Learning	Objectives:				
		Term-to-term rules for numerical sequences (M381)				
W		Term-to-term rules for sequences of patterns (M241)				
	Unit 2: U	nderstand and use algebraic notation				
		Objectives:				
		Algebraic notation (M813)				
		Algebraic terminology (M830)				
		Function machines (M175, M428)				
8 4		Substituting into expressions with one operation (M417)				
Weeks 3		Substituting into expressions with multiple operations (M327)				
We		Substituting into algebraic formulae (M208)				
		Substituting into real-life formulae (M979)				
		Substituting into position-to-term rules (M166)				
	Unit 3: Fo	juality and equivalence				
		Objectives:				
3,6	<u></u>					
Weeks 5&6		Solving equations with one step (M707)				
Neel		Simplifying expressions containing a single variable (M795)				
		Simplifying expressions containing multiple variables (M531)				
7	Consolida	ation				

☐ Complete tasks from any of the units of work above

		The state of the s
	Unit 4: P	lace value & ordering integers & decimals
	<u>Learning</u>	Objectives:
		Using number lines (M763)
		Integer place value (M704)
2 & 3		Decimal place value (M522)
Ĺ,		Rounding integers (M111)
Weeks		Rounding decimals (M431)
		Calculating the range (M328)
		Calculating the median (M934)
	Unit 5: Fr	action, decimal & percentage equivalence
	Learning	Objectives:
		Finding fractions of shapes (M158)
		Constructing fractions (M939)
9 3		Finding equivalent fractions (M410)
1, 5 &		Simplifying fractions (M671)
Weeks 4,		Ordering fractions (M335)
We		Converting between mixed numbers and improper fractions (M601)
		Converting between fractions and decimals (M958)
		Converting between fractions, decimals and percentages (M264)
		Ordering fractions, decimals and percentages (M553)

Weeks 7 & 8

Consolidation

☐ Complete tasks from any of the units of work above

☐ Writing numbers as percentages of other numbers (M235)





	Unit 6: Solving problems with addition and subtraction					
	<u>Learning</u>	Objectives:				
		Adding integers (M928)				
		Adding decimals (M429)				
		Subtracting integers (M347)				
2		Subtracting decimals (M152)				
1 &		Finding perimeters using grids (M920)				
Weeks		Finding the perimeter of rectangles and simple shapes (M635)				
We		Finding the perimeter of compound shapes (M690)				
		Interpreting frequency tables and two-way tables (M899)				
		Interpreting bar charts (M738)				
		Calculating with time (M627)				
		Using timetables (M963)				
		Using calendars (M747)				
	Unit 7: So	olving problems with multiplication and division				
		Objectives:				
		Objectives:				
		Objectives: Finding the lowest common multiple (M227)				
	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823)				
8.4	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698)				
% %	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698) Multiplying and dividing by 10, 100 and 1000 (M113)				
% %	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698) Multiplying and dividing by 10, 100 and 1000 (M113) Multiplying using place value (M911)				
⊗ Ø	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698) Multiplying and dividing by 10, 100 and 1000 (M113) Multiplying using place value (M911) Using a written method to multiply integers (M187)				
% %	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698) Multiplying and dividing by 10, 100 and 1000 (M113) Multiplying using place value (M911) Using a written method to multiply integers (M187) Using a written method to multiply decimals (M803)				
% %	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698) Multiplying and dividing by 10, 100 and 1000 (M113) Multiplying using place value (M911) Using a written method to multiply integers (M187) Using a written method to multiply decimals (M803) Dividing numbers into equal groups (M462)				
% %	Learning	Objectives: Finding the lowest common multiple (M227) Finding factors and using divisibility tests (M823) Finding the highest common factor (M698) Multiplying and dividing by 10, 100 and 1000 (M113) Multiplying using place value (M911) Using a written method to multiply integers (M187) Using a written method to multiply decimals (M803) Dividing numbers into equal groups (M462) Using a written method to divide integers (M354)				



	Unit 7 (continued): Solving problems with multiplication and division					
	Learning	Objectives:				
		Calculating with roots and powers (M135)				
		Using the correct order of operations (M521)				
		Using the commutative laws (M952)				
2		Using the associative laws (M409)				
4 %		Converting units of length, mass and capacity (M774)				
Weeks		Finding areas using grids (M900)				
Š		Finding the area of rectangles (M390)				
		Finding the area of compound shapes (M269)				
		Finding the area of triangles (M610)				
		Finding the area of compound shapes containing triangles (M996)				
		Calculating the mean (M940)				

Unit 8: Fractions and percentages of an amount **Learning Objectives:** ☐ Finding fractions of shapes (M158) ☐ Constructing fractions (M939) ☐ Fractions of amounts without a calculator (M695) ☐ Fractions of amounts with a calculator (M684) ☐ Finding percentages of amounts without a calculator (M437) ☐ Finding percentages of amounts with a calculator (M905)



	Unit 9: Operations & equations with directed number				
	<u>Learning Objectives:</u>				
		Using number lines (M763)			
		Ordering negative numbers (M527)			
		Adding and subtracting with negative numbers (M106)			
∞ ∞		Multiplying and dividing with negative numbers (M288)			
1, 2		(R) Using the correct order of operations (M521)			
Weeks 1,		(R) Substituting into expressions with multiple operations (M327)			
Š		(R) Solving equations with one step (M707)			
		Solving equations of the form $ax + b = c$ (M634)			
		Solving equations of the form $x/a + b = c$ (M647)			
		Calculating with roots and powers (M135)			
		Using a calculator (M757)			

Unit 10: Addition & subtraction of fractions Learning Objectives: ☐ Finding equivalent fractions(M410) ☐ Simplifying fractions(M671) Weeks 4 & 5 ☐ Ordering fractions(M335) ☐ Converting between mixed numbers and improper fractions(M601) ■ Adding and subtracting fractions(M835) ☐ Adding and subtracting mixed numbers(M931)



	Unit 11: Constructing, measuring & using geometric notation		
Weeks 1, 2 & 3	<u>Learning Objectives:</u>		
		Using a ruler (M985)	
		Line properties (M814)	
		Shape properties (M276)	
		Symmetry (M523)	
		Types of angles (M502)	
		Estimating angles (M541)	
		Measuring angles (M780)	
		Drawing angles (M331)	
		Using a pair of compasses (M196)	
		Constructing triangles (M565)	
		Drawing pie charts (M574)	
		Interpreting pie charts (M165)	
	Unit 12: [Developing geometric reasoning	
Weeks 4, 5 & 6	Learning Objectives:		
		Angles on a line and about a point (M818)	
		Vertically opposite angles (M163)	
		Angles in triangles (M351)	
		Angles in quadrilaterals (M679)	
		Combining angle facts (M319)	

Weeks 1 & 2	Unit 13: Developing number sense		
	<u>Learning Objectives:</u>		
		Using the commutative laws(M952)	
		Using the associative laws(M409)	
		Using the distributive law (M637)	
		Rounding integers using significant figures(M994)	
		Rounding decimals using significant figures(M131)	
		Estimating calculations (M878)	
Weeks 3 & 4	Unit 14: Sets and probability		
	<u>Learning</u>	Objectives:	
		Venn diagrams (M829)	
		Using probability phrases (M655)	
		Writing probabilities as fractions (M941)	
		Writing probabilities as fractions, decimals and percentages (M938)	
		Probabilities of mutually exclusive events (M755)	
Weeks 5 & 6	Unit 15: Prime numbers		
	Learning Objectives:		
		Finding the lowest common multiple (M227)	
		Finding factors and using divisibility tests (M823)	
		Finding the highest common factor (M698)	
		Finding prime numbers (M322)	
		Prime factor decomposition (M108)	
	Consolidation		

lacktriangle Complete tasks from any of the units of work above