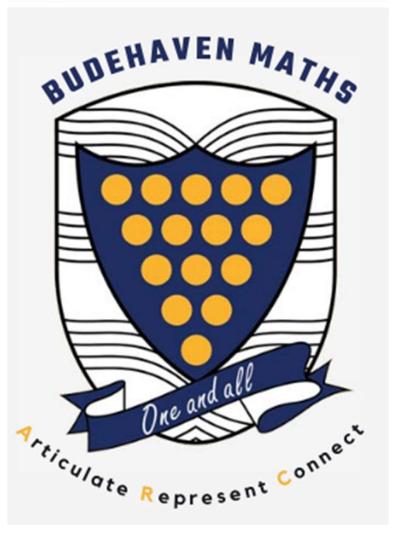


Sparx Maths



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: Fraction, decimal & percentage equivalence			· ·	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
	Unit 6: Addition & subtraction		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
	Unit 11: Constructing, measuring & using geometric notation			Unit 12: Developing geometric reasoning		

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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2	Unit 1: Se	equences
Ø	<u>Learning</u>	Objectives:
Weeks 1		Term-to-term rules for numerical sequences (M381)
W		Term-to-term rules for sequences of patterns (M241)
	Unit 2: Uı	nderstand and use algebraic notation
	<u>Learning</u>	Objectives:
		Algebraic notation (M813)
		Algebraic terminology (M830)
4		Function machines (M175, M428)
3 &		Substituting into expressions with one operation (M417)
Weeks		Substituting into expressions with multiple operations (M327)
W		Substituting into algebraic formulae (M208)
		Substituting into real-life formulae (M979)
		Substituting into position-to-term rules (M166)
		(H) Position-to-term rules for arithmetic sequences (M991)
		(H) Position-to-term rules for sequences of patterns (M866)
	Unit 3: Eq	quality and equivalence
	Learning	Objectives:
Weeks 5&6		Solving equations with one step (M707)
eeks		Simplifying expressions containing a single variable (M795)
>		Simplifying expressions containing multiple variables (M531)
		(H) Simplifying expressions containing non-linear terms (M949)
k 7	Consolida	ation

☐ Complete tasks from any of the units of work above

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	Unit 4: P	lace value & ordering integers & decimals
	Learning	Objectives:
		Using number lines (M763)
		Integer place value (M704)
2 & 3		Decimal place value (M522)
_		Rounding integers (M111)
Weeks 1,		Rounding decimals (M431)
>		Calculating the range (M328)
		Calculating the median (M934)
		(H) Using standard form with positive indices (M719)
		(H) Using standard form with negative indices (M678)
	Unit 5: Fr	action, decimal & percentage equivalence
	<u>Learning</u>	Objectives:
		Finding fractions of shapes (M158)
		Constructing fractions (M939)
9		Finding equivalent fractions (M410)
4,58		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)
		Writing numbers as percentages of other numbers (M235)
∞	Consolida	ntion

Weeks 7 &

☐ Complete tasks from any of the units of work above





	Unit 6: So	olving 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)
×		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)
∞	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)

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	Unit 7 (continued): Solving problems with multiplication and division		
Weeks 4 & 5	<u>Learning Objectives:</u>		
		Calculating with roots and powers (M135)	
		Using the correct order of operations (M521)	
		Using the commutative laws (M952)	
		Using the associative laws (M409)	
		Converting units of length, mass and capacity (M774)	
		Finding areas using grids (M900)	
		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)	
		(H) Finding the area of trapezia (M705)	
		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)	
	(R) Using the correct order of operations (M521)	
	(R) Substituting into expressions with multiple operations (M327)	
	(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) Ordering fractions(M335) Converting between mixed numbers and improper fractions(M601) Adding and subtracting fractions(M835) Adding and subtracting mixed numbers(M931) (H) Adding and subtracting algebraic fractions(M336)



	Unit 11: Constructing, measuring & using geometric notation		
Weeks 1, 2 & 3	Learning Objectives:		
		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		
	Learning Objectives:		
		Angles on a line and about a point (M818)	
9		Vertically opposite angles (M163)	
, 5 &		Angles in triangles (M351)	
Weeks 4,		Angles in quadrilaterals (M679)	
		Combining angle facts (M319)	
		(H) Angles on parallel lines (M606)	
		(H) Using quadrilateral properties to find angles (M393)	
		(H) Angles in polygons (M653)	

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Weeks 1 & 2	Unit 13: Developing number sense		
	Learning Objectives:		
		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)	
	Unit 14: 9	Sets and probability	
	Learning Objectives:		
4		Venn diagrams (M829)	
3 &		Using probability phrases (M655)	
Weeks		Writing probabilities as fractions (M941)	
We		Writing probabilities as fractions, decimals and percentages (M938)	
		Probabilities of mutually exclusive events (M755)	
		(H) Probabilities from Venn diagrams (M419)	
	Unit 15: Prime numbers		
	Learning Objectives:		
		Finding the lowest common multiple (M227)	
& 6		Finding factors and using divisibility tests (M823)	
ks 5		Finding the highest common factor (M698)	
Weeks 5		Finding prime numbers (M322)	
		Prime factor decomposition (M108)	
		(H) Finding the HCF and LCM using prime factor decomposition (M365)	
7	Consolida	ation	

lacktriangle Complete tasks from any of the units of work above