Birchwood Junior School

Maths Fundamentals Structure 2026

Fundamentals by term, Year 6 sequence and problem solving

Fundamentals by term

Term 1	Y2	Y3	Y4	Y5
1) place value/subitising	subitising/ PV to 100	subitising/ PV up to 1000	up to 10,000	up to 100,000
2) evens and odds	to 50	to 100	to 1000	to 10,000
3) doubling	numbers to 20	numbers to 50	numbers to 100	numbers to 500
4) halving	numbers to 50	numbers to 100	numbers to 200	numbers to 1000
5) compare and order	numbers to 100	numbers to 1000	numbers to 10,000	numbers to 100,000
6) rounding	2 digit numbers to the nearest 10	3 digit numbers to the nearest 10	4 digit numbers to the nearest 10 and 100	5 digit numbers to the nearest 10, 100 and 1000

Term 2	Y2	Y3	Y4	Y5
1) partitioning	numbers up to 100	numbers up to 1000	numbers up to 10,000	numbers up to 1,000,000
2) mental calculation	numbers to 50	numbers to 100	numbers to 1000	numbers to 10,000
3) mental calculation	numbers to 50	numbers to 100	numbers to 1000	numbers to 10,000
4) column +	numbers to 100	numbers to 1000	numbers to 10,000	numbers to 1,000,000
5) column -	numbers to 100	numbers to 1000 with exchange	numbers to 10,000 with exchange	numbers to 1,000,000 with exchange
6) missing values +/-	see above	see above	see above	see above
7) sequences	one missing value, starting from zero	one missing value, not starting from 0	one missing value, +/- not from zero	two missing values, +/-, not from zero

Term 3	Y2	Y3	Y4	Y5
1) x10, 100 and 1000	1 digit x 10	2 digit x 10	2 digit x 10 and 100	3 digit x 10, 100 and 1000
2) fact families	2, 5 and 10	3, 6, 4 and 8	7, 9, 11 and 12	all x table
3) related number facts		40 x 5 for example	400 x 5 for example	40 x 50 or 400 x 50
4) written multiplication	grouping in 2s, 5s and 10s	column 2 digit x 1	column 3 digit x 1	column 4 digit x 1/ 2 x 2 digit
5) divide by 10/100/1000	10 times table fact family	3 digit divide by 10	2 and 3 digit divide by 10 and 100	3 and 4 digit divide by 10, 100 and 1000
6) written division	sharing into groups 5x table	2 digit	3 digit	4 digit

Term 4	Y2	Y3	Y4	Y5
1) part-whole	1/2, 1/4 and 1/3	unit fractions	non-unit fractions	improper fractions
2) fractions of amounts	1/2 and 1/4	1/3, 1/5, 1/6 and 1/8	all unit fractions of amounts	non-unit fractions of amounts
3) add fractions	count in fractions up to 1 whole	same denominator	improper fractions/mixed - same denominator	different denominators
4) subtract fractions	count in fractions up to 1 whole	same denominator	improper fractions/ mixed - same denominator	different denominators
5) missing number +/- fractions	count in fractions up to 1 whole	same denominator	improper fractions/ mixed - same denominator	different denominators
6) x fractions (y5 only)				x fractions

Term 5	Y2	Y3	Y4	Y5
1) length	measure in cm/m	cm/m and cm/mm	cm/mm, cm/m, m/km	all conversions and applications
2) mass	measure in g and kg	g/kg	g/kg	g/kg applications
3) capacity	measure in ml and l	ml/l	ml/l	ml/l applications
4) money	choose money to make an amount	convert pounds and pence	add money	finding change
5) time - analogue/digital	hour, half past, quarter to/past	hour is, minutes are, time is	hour is, minutes are, time is - AM/PM	convert analogue to digital
6) time - applications	hours in a day	duration using start and end times	use duration to find start/end times	Solve problems with time

Term 6	Y2	Y3	Y4	Y5
1) perimeter		perimeter of rectangles, all sides given	perimeter of 2D shapes	perimeter of rectilinear shapes, missing sides
2) area/volume			area counting squares	area of rectangles/ volume
3) properties of 2D shapes	triangle, square, circle, rectangle	pentagon, hexagon, heptagon, nonagon	polygons	polygons, irregular/regular and lines of symmetry
4) properties of 3D shapes	cube, cuboid, pyramid, sphere	prisms, different pyramids	all - identify faces, vertices and edges	all - including nets

Year 6

Term 1	Problem solving
1) partitioning numbers to 10,000,000	Y5 Number and place value: My Number.
2) addition and subtraction of numbers up to 10,000,000	Y5 Addition and subtraction: More than, less than
3) addition and subtraction of decimals up to 2 decimal places	Y5 Addition and subtraction: Multi step additive
4) missing number add/subtract questions	Y5 Addition and subtraction: The sum, the difference
5) x 10, 100 and 1,000, multiples of 10,100 and 1,000	Y5 Addition and subtraction: Compare the info
6) multiplying up to 4 digit x 1 digit	Y6 Additive reasoning task family: more than/less than
7) multiplying up to 4 digit x 2 digit	Y6 Additive reasoning task family: money transactions

Term 2	Problem solving
1) divide by 10, 100 and 1,000	
2) divide up to 4 digits by 1 digit	
3) divide up to 4 digits by 2 digits	
4) BODMAS	
5) Fractions of amounts	
6) Add and subtract fractions - same and different denominators	
7) Add and subtract fractions - mixed numbers	
8) multiply fractions - by whole numbers/fractions	
9) divide fractions by whole numbers	
10) multiply decimals and whole numbers	
11) percentages of amounts	

Term 3 onwards

Weekly arithmetic recorded on spreadsheet.

Fundamentals session used to target gaps in above areas

Problem solving

ISR: I See Reasoning (Gareth Metcalfe). DWP: Deconstructing Word Problems.

Term 1	Y1	Y2	Y3	Y4	Y5
Week 1	ISR Numbers within 10	ISR Number and place value	Y2 Number: My number	Y3 Number: My number	Y4 Number: My number
Week 2	ISR Numbers within 10	ISR Number and place value	Y3 Number: My number	Y4 Number: My number	Y5 Number: My number
Week 3	ISR Numbers within 10	ISR Number and place value	Y2 Addition and subtraction: More than/Less than	Y3 Addition and subtraction: More than/Less than	Y4 Addition and subtraction: More than/less than
Week 4	ISR Numbers within 10	ISR Number and place value	Y3 Addition and subtraction: More than/Less than	Y4 Addition and subtraction: More than/less than	Y4 Addition and subtraction: Multi-step additive
Week 5	ISR Number and place value	ISR Number and place value	Y2 Addition and subtraction: The whole, the parts, Part 1	Y3 Addition and subtraction: The whole, the parts	Y4 Addition and subtraction: Difference
Week 6	ISR Number and place value	ISR Number and place value	Y2 Addition and subtraction: The whole, the parts, Part 2	Y3 Addition and subtraction: Multistep additives	Y4 Addition and subtraction: The Sum, the difference

Term 2	Y1	Y2	Y3	Y4	Y5
Week 1	ISR Number and place value	DWP Y2: My number	Y3 Addition and subtraction: The whole, the parts	Y4 Addition and subtraction: Multistep additives	Y5 Addition and subtraction: more than/less than
Week 2	ISR Number and place value	ISR Addition	Y2 Addition and subtraction: Multistep additives	Y3 Addition and subtraction: Difference	Y5 Addition and subtraction: Multi-step additive
Week 3	ISR Number and place value	ISR Addition	Y3 Addition and subtraction: Multistep additives	Y4 Addition and subtraction: Difference	Y5 Addition and subtraction: The Sum, the difference
Week 4	ISR Number and place value	ISR Addition	Y2 Addition and subtraction: Difference	Y4 Addition and subtraction: The sum, the difference	Y5 Addition and subtraction: Compare the info
Week 5	ISR Number and place value	ISR Addition	Y3 Addition and subtraction: Difference	Y4 Addition and subtraction: The sum, the difference	Extra time/ Nrich problem
Week 6	ISR Number and place value	DWP Y2: Addition and subtraction: More than/less than	Y3 Addition and subtraction: Difference	Extra time/ Nrich problem	Extra time/ Nrich problem