Ridgmont Lower School Year 4 Maths Planning by Term

Autumn	Spring	Summer
➢ Place Value ➢ Addition and Subtraction (1) ➢ Fractions ➢ Multiplication and Division ➢ Addition and Subtraction (2) ➢ Shape	➢ Place Value, Decimals and Fractions ➢ Addition and Subtraction (1) ➢ Measure ➢ Multiplication and Division ➢ Time and Data	➢ Number and Place Value ➢ Addition and Subtraction ➢ Multiplication and Division ➢ Fractions and Decimals ➢ Measure and Data ➢ Shape

For further information as to what is covered under each heading and the outcomes, please tables see below.

AUTUMN TERM	**UNIT TITLE**	**OUTCOMES** **(see below)**
Place Value	Numbers on a line; compare and order	1
	PV in 3-/4- digit numbers; amounts of money	3, 9
	+/- 1, 10, 100 and1000 and multiples	3, 6
Addition and Subtraction (1)	Strategies for adding and subtracting	10
	Number bonds to 100	10, 12
	Subtract by counting up; frog	10, 12, 15
Fractions	Doubling, halving and the concept of a half measuring lengths	17, 18
	Conceptualising fractions	23
	Finding fractions of amounts	24
Multiplication and Division	Rehearsing and understanding times tables	17

	Partitioning in multiplication and division	19
	Strategies for division	20
Addition and Subtraction (2)	+/- near-/multiples of 10, 100, 1000	6, 9
	Partitioning and column addition	11
	Formal addition & subtraction algorithms	
Shape	Symmetry and 2D shapes	39, 41
	Understanding 3D shapes	39
	Co-ordinates in the first quadrant	42, 32
SPRING TERM	**UNIT TITLE**	**OUTCOMES** **(see below)**
Place Value, Decimals and Fractions	Negative numbers	5
	Fractions	24
	X and ÷ with money and 1-place decimals	26, 29
	Decimals and money on a line	26, 27
	Equivalent fractions; +/- fractions	23, 25
Addition and Subtraction (1)	Mental addition and subtraction	10, 12, 32, 36
	3 digit +/- 1 digit numbers	16
	Column addition	11, 15, 32, 36
	Frog and decomposition	12, 14, 15
Measure	Length and data	33, 36, 38
	Weight and data	33, 36, 38
Multiplication and Division	Times tables and factors	17, 18

	Partitioning in multiplication	18, 19
	Division	20, 24
Time and Data	Telling the time	37
	Time and data	37, 38
SUMMER TERM	**UNIT TITLE**	**OUTCOMES** **(see below)**
Number and Place Value	Number and place value	1, 2, 9
	Sequence and Roman Numerals	4, 8
Addition and Subtraction	Written algorithms	11, 14
	Finding a difference – whole numbers	12, 14
	Money; finding change and differences	12, 14, 15, 16
	Written addition and subtraction	14, 15, 16
Multiplication and Division	Times, tables, factors and multiples	17, 18
	Division	17, 20
	Partitioning to double, halve and multiply	17, 19
	Scaling problems and mental strategies	17, 22
Fraction and Decimals	Fractions	23, 24, 25, 28
	Decimals and money	26, 27, 29
	Decimals and measures	26, 30, 31
Measures and Data	Area and Perimeter	34, 35
	Time	37
	Line Graphs and Bar Charts	38

Shape	Exploring shape properties	39, 40, 41
	Co-ordinates and 3D shapes	42, 43

Year 4 Outcomes (skills in **bold** are linked to Y4 National Curriculum **Statutory requirements**)

1. Read, write and locate any 3-digit number on a landmarked line from 0-1000 and use this to locate 4-digit numbers on a landmarked line and use this to compare/order numbers.
2. Round to ten, a hundred and a thousand.
3. Understand the numbers of 1s, 10s, 100s, 1000s in a 4-digit no, and the use of zero as a place-holder.
4. Count in multiples of 6, 7, 9, 25 and 1000.
5. Recognise negative numbers in relation to number lines and temperature.
6. Add and subtract multiples of 1, 10, 100, 1000 without difficulty.
7. Multiply 1 and 2-digit whole numbers by 10, 100 and 1000.
8. Read Roman numerals to 100 (I to C).
9. Solve number and practical problems involving place value.
10. Mentally add and subtract any pair of 2-digit numbers or 3-digit multiples of 10.
11. Use column addition to add 3-digit and 4-digit numbers: first expanded, then compact method.
12. Subtract numbers from 3-digit numbers using 'Frog'/counting up, e.g. 426–278, 321-87.
13. Use 'Frog' to subtract from multiples of 1000 where the difference is less than 500.
14. Use column subtraction to subtract 3 and 4-digit numbers: first expanded, then compact method.
15. Estimate and use inverse operations to check answers to a calculation.
16. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
17. Know and recite times tables, including division facts, up to 12 × 12; multiply by 0 and multiply and divide by 1.
18. Use known facts, place value, factors and commutativity to multiply and divide mentally, including multiplying three numbers together.
19. Multiply 1-digit numbers by 2-digit or 'friendly' 3-digit numbers mentally or using grid method (i.e. using the distributive law).
20. Know how to use 'efficient chunking' for division above the range of the tables facts, e.g. 84 ÷ 6 = ?. Begin to extend this to 3-digit numbers.
21. Solve single-step problems; begin to solve multi-step problems, including multiplication/division.
22. Solve scaling and harder correspondence problems: n objects are connected to m objects.
23. Write the equivalent fraction for fractions with given denominators or numerators, e.g. ½ ≡ ?/8; express a fraction in its simplest form, e.g. 6/12 ≡ ½.
24. Use times tables to find unit and non-unit fractions of amounts, e.g. 1/6 of 48, 3/8 of 64.
25. Add and subtract fractions with the same denominator.
26. Know that one-place decimal numbers represent ones and tenths.
27. Round decimals with one decimal place to the nearest whole number.
28. Recognise and write decimal equivalents of any number of tenths or hundredths and decimal equivalents to ¼, ½, ¾.

29. Find the effect of dividing a 1 or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
30. Count on and back in hundredths.
31. Compare numbers with the same number of decimal places up to 2 decimal places.
32. Solve simple measure/money problems involving fractions and decimals to 2 decimal places.
33. Convert between units of measurement, e.g. cm to m, g to Kg, ml to L; units of time.
34. Measure and calculate the perimeter of a rectilinear figure (incl. squares) in cm and m.
35. Find the area of rectilinear shapes by counting squares.
36. Estimate, compare and calculate different measures, including money in pounds and pence.
37. Convert between units of time, analogue/digital times, and between 12-hour and 24-hour times.
38. Interpret and present discreet data using bar charts, pictograms and tables, and continuous data on time graphs; answer questions re-data.
39. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
40. Identify acute and obtuse angles, compare and order angles up to 180º.
41. Identify lines of symmetry in 2-D shapes presented in different orientations; complete a simple symmetric figure with respect to one line of symmetry.
42. Describe positions on a 2-D grid as coordinates in the first quadrant, plot specified points and draw sides to complete a given polygon.
43. Describe movements between positions as translations of a given unit to left/right, up/down.