

Ridgmont Lower School Year 3 Maths Planning by Term					
Autumn		Spring	Summer		
 Place Value Addition and Subtraction Fractions Multiplication and Division Addition and Subtraction		 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 PV in 3-/4- digit numbers; amounts of	1, 2 2, 3, 5, 32			
	+/- 1, 10, 100 and1000 and multiples	3, 9			
Addition and Subtraction (1)	Strategies for adding and subtracting	4, 7, 14			
	Number bonds to 100	7, 8, 32			
	Subtract by counting up; frog	6, 10, 12			
Fractions	Doubling, halving and the concept of a half measuring lengths	19, 20			
	Conceptualising fractions	22, 27			
	Finding fractions of amounts	22, 23, 27			
Multiplication and Division	Rehearsing and understanding times tables	15, 16, 17			



	Partitioning in multiplication and division	20
	Strategies for division	16, 17
Addition and Subtraction (2)	+/- near-/multiples of 10, 100, 1000	5, 9
	Partitioning and column addition	8, 11
	Formal addition & subtraction algorithms	
Shape	Symmetry and 2D shapes	37, 30
	Understanding 3D shapes	37
	Co-ordinates in the first quadrant	37
SPRING TERM	UNIT TITLE	OUTCOMES
		(see below)
Place Value, Decimals and Eractions	Negative numbers	5
Fractions	Fractions	23, 24
	X and ÷ with money and 1-place decimals	18
	Decimals and money on a line	1, 6
	Equivalent fractions; +/- fractions	22, 26
Addition and Subtraction (1)	Mental addition and subtraction	8, 10
	3 digit +/- 1 digit numbers	7, 8, 14
	Column addition	11, 14, 32
	Frog and decomposition	12, 13, 14
Measure	Length and data	28, 29, 30, 36
	Weight and data	28, 36



Multiplication and Division	Times tables and factors	16, 17
	Partitioning in multiplication	17, 18, 20
	Division	17, 23
Time and Data	Telling the time	33, 34, 35
	Time and data	33, 35, 36
SUMMER TERM	UNIT TITLE	OUTCOMES
		(see below)
Number and Place Value	Number and place value	1, 3, 6
	Sequence and Roman Numerals	4, 5
Addition and Subtraction	Written algorithms	11
	Finding a difference – whole numbers	10, 12
	Money; finding change and differences	12, 13, 14
	Written addition and subtraction	9, 11
Multiplication and Division	Times, tables, factors and multiples	15, 16, 17
	Division	15, 16
	Partitioning to double, halve and multiply	19, 20
	Scaling problems and mental strategies	17, 21
Fraction and Decimals	Fractions	22-27
	Decimals and money	5, 12, 32
	Decimals and measures	28, 29
Measures and Data	Area and Perimeter	30, 31
	Time	33, 34, 35



	Line Graphs and Bar Charts	36
Shape	Exploring shape properties	38, 39
	Co-ordinates and 3D shapes	37



Year 3 Outcomes (skills in bold are linked to Y3 National Curriculum Statutory requirements)

1. Read, write and locate any 3-digit number on a landmarked line from 0-1000 and use this to order and compare numbers.

2. Estimate quantities and represent numbers in different ways.

3. Understand place value in 3-digit numbers; add/subtract 1, 10, 100 without difficulty.

4. Count from 0 in 2s, 4s, 8s, 10s, 100s, and 50s.

5. Solve number problems and practical problems involving place value.

6. Round to the nearest ten and hundred, e.g. 34 to nearest 10 is 30, 276 to nearest hundred is 300.

7. Know securely number pairs for all the numbers up to and including 20, e.g. pairs which make 15 (7+8, 6+9, 5+10, 4+11, 3+12, 2+13, 1+14, 0+15).

8. Mentally add or subtract any pair of 2-digit numbers, e.g. 75 + 58 or 75 – 58.

9. Mentally add and subtract multiples of 1s, 10s and 100s to/from 3-digit numbers.

10. Recognise that there are two ways of completing subtractions, either by counting up or by counting back.

11. Add numbers with 3-digits using column addition, first expanded then compact method.

12. Subtract larger numbers with confidence, using 'Frog' for counting up, e.g. 302 – 288.

13. Estimate answers and use addition to check subtraction, understanding that addition and subtraction are inverse operations.

14. Solve problems, including missing number problems.

15. Understand that multiplication is commutative, and write mathematical statements for multiplication and division

16. Understand that division is the inverse of multiplication, e.g. $? \times 3 = 21 \equiv 21 \div 3 = ?$.

17. Know the 2x, 3x, 4x, 5x, 8x and 10x times tables, including division facts.

18. Multiply 2-digit numbers by 10, or 1-digit numbers by 100; divide multiples of 10 or 100 by 10 or 100. Understand the effect of x or \div by 10/100.

19. Multiply a 1-digit number by a 2-digit number using partitioning.

20. Partition to double and halve numbers.

21. Solve problems, including missing number and scaling problems.

22. Recognise and show using diagrams, equivalent fractions for $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{3}$, e.g. $\frac{1}{4} \equiv \frac{3}{12}$.

23. Recognise, find and write unit and non-unit fractions of convenient amounts, e.g. 1/10 of 100 or 1/3 of 60.

24. Count on and back in fractional steps, e.g. counting in ½s, ¼s or 1/3s; hence recognise fractions as numbers.

25. Count on and back in tenths and understand that tenths are the result of dividing an object or quantity into 10 equal parts.

26. Compare and order unit fractions and fractions with the same denominator; add or subtract fractions with the same denominator.



27. Solve problems involving fractions.

28. Measure, compare, add and subtract lengths, weights and capacities.

29. Know that there are 100cm in a metre and that there are 10mm in a centimetre.

30. Use a ruler to measure lines.

31. Measure the perimeter of simple 2-D shapes.

32. Add and subtract amounts of money; give change by counting up. Use both £ and p in practical contexts.

33. Tell and write the time on digital and analogue clocks, including those with Roman numerals. 34. Record times in seconds, minutes, hours, days, weeks, months, years including leap years, converting from one unit to another.

35. Compare durations of events using analogue/digital times, and vocabulary such as am and pm.

36. Interpret and represent data on scaled bar charts, pictograms and tables, and solve problems using these.

37. Draw 2-D and make 3-D shapes, recognising both in different orientations, and describe them. 38. Identify right angles as 90° in shapes, and also as turns; recognise angles as less than or greater than 90°.

39. Identify horizontal and vertical lines, and pairs of parallel and perpendicular lines.