

Year 3 Maths Autumn Term Overview

Mathematical strand:	Number	Number	Number
Topic:	Place Value	Addition and Subtraction	Multiplication and division part 1
Big Question:	How can knowing about numbers and place value help us in everyday life? When might we need it?	How have the ways we add and subtract changed over time?	Do you think knowing multiplication and division can help you get better at mental math? Why or why not?
Key knowledge and skills:	The small steps of key knowledge and skills in this unit are: • Represent numbers to 100 • Partition numbers to 100 • Number line to 100 • Hundreds • Represent numbers to 1,000 • Partition numbers to 1,000 • Flexible partitioning of numbers to 1,000 • Hundreds, tens and ones • Find 1, 10 or 100 more or less • Number line to 1,000 • Estimate on a number line to 1,000 • Compare numbers to 1,000 • Order numbers to 1,000 • Count in 50s	The small steps of key knowledge and skills in this unit are: • Apply number bonds within 10 • Add and subtract 1s • Add and subtract 10s • Add and subtract 100s • Spot the pattern • Add 1s across a 10 • Add 10s across a 100 • Subtract 1s across a 10 • Subtract 10s across a 100 • Make connections • Add two numbers (no exchange) • Subtract two numbers (no exchange) • Add two numbers (across a 10) • Add two numbers (across a 100) • Subtract two numbers (across a 10) • Subtract two numbers (across a 100) • Add 2-digit and 3-digit numbers • Subtract a 2-digit number from a 3-digit number • Complements to 100 • Estimate answers • Inverse operations • Make decisions	The small steps of key knowledge and skills in this unit are: • Multiplication – equal groups • Use arrays • Multiples of 2 • Multiples of 5 and 10 • Sharing and grouping • Multiply by 3 • Divide by 3 • The 3 times-table • Multiply by 4 • Divide by 4 • The 4 times-table • Multiply by 8 • Divide by 8 • The 8 times-table • The 2, 4 and 8 times-tables
Key vocabulary	Place value, digit, ones, tens, hundreds	Addition, subtraction, sum, difference, inverse	Multiplication, division, quotient, product, group
What I will know by the end:	I will be able to apply my new skills and knowledge to a range of situations and representations.		

Year 3 Maths Spring Term Overview

Mathematical strand:	Number	Measurement	Number	Measurement
Topic:	Multiplication and division part 2	Length and perimeter	Fractions part 1	Mass and capacity
Big Question:	Why is it important to know about place value when we multiply or divide by 10 and 100?	When might we need to use what we know about perimeter? Can you think of any examples?	How can you show that when the bottom number of a fraction (denominator) gets bigger, the fraction gets smaller? Can you prove it?	How can knowing about mass and capacity help us in our everyday lives?
Key knowledge and skills:	The small steps of key knowledge and skills in this unit are: • Multiples of 10 • Related calculations • Reasoning about multiplication • Multiply a 2-digit number by a 1-digit number - no exchange • Multiply a 2-digit number by a 1-digit number - with exchange • Link multiplication and division • Divide a 2-digit number by a 1-digit number - no exchange • Divide a 2-digit number by a 1-digit number - flexible partitioning • Divide a 2-digit number by a 1-digit number - with Remainders • Scaling • How many ways?	The small steps of key knowledge and skills in this unit are: • Measure in metres and centimetres • Measure in millimetres • Measure in centimetres and millimetres • Metres, centimetres and millimetres • Equivalent lengths (metres and centimetres) • Equivalent lengths (centimetres and millimetres) • Compare lengths • Add lengths • Subtract lengths • What is perimeter? • Measure perimeter • Calculate perimeter	The small steps of key knowledge and skills in this unit are: • Understand the denominators of unit fractions • Compare and order unit fractions • Understand the numerators of non-unit fractions • Understand the whole • Compare and order non-unit fractions • Fractions and scales • Fractions on a number line • Count in fractions on a number line • Equivalent fractions on a number line • Equivalent fractions as bar models	The small steps of key knowledge and skills in this unit are: • Use scales • Measure mass in grams • Measure mass in kilograms and grams • Equivalent masses (kilograms and grams) • Compare mass • Add and subtract mass • Measure capacity and volume in millilitres • Measure capacity and volume in litres and millilitres • Equivalent capacities and volumes (litres and millilitres) • Compare capacity and volume • Add and subtract capacity and volume
Key vocabulary:	Array, factor, divisor, remainder, exchange	Perimeter, edge, outline, metre (m), unit of measure	Numerator, denominator, unit fraction, fraction, equivalence	Balance, heavier, lighter, full, empty
What I will know by the end:	I will be able to apply my new skills and knowledge to a range of situations and representation.			

Year 3 Maths Summer Term Overview

Mathematical strand:	Number	Measurement	Measurement	Geometry	Statistics
Topic:	Fractions part 2	Money	Time	Shape	Statistics
Big Question:	How can we use our knowledge of multiplication when Learning fractions?	Why is it important to understand how to use money? When will I need to use money?	Why is understanding time important for our future?	How does our knowledge of shape help us in our everyday lives?	How does our knowledge of statistics help us in other subjects? Can you name any?
Key knowledge and skills:	The small steps of key knowledge and skills in this unit are: • Add fractions • Subtract fractions • Partition the whole • Unit fractions of a set of objects • Non-unit fractions of a set of objects • Reasoning with fractions of an amount	The small steps of key knowledge and skills in this unit are: • Pounds and pence • Convert pounds and pence • Add money • Subtract money • Find change	The small steps of key knowledge and skills in this unit are: • Roman numerals to 12 • Tell the time to 5 minutes • Tell the time to the minute • Read time on a digital clock • Use am and pm • Years, months and days • Days and hours • Hours and minutes - use start and end times • Hours and minutes - use durations • Minutes and seconds • Units of time • Solve problems with time	The small steps of key knowledge and skills in this unit are: • Turns and angles • Right angles • Compare angles • Measure and draw accurately • Horizontal and vertical • Parallel and perpendicular • Recognise and describe 2-D shapes • Draw polygons • Recognise and describe 3-D shapes • Make 3-D shape	The small steps of key knowledge and skills in this unit are: • Interpret pictograms • Draw pictograms • Interpret bar charts • Draw bar charts • Collect and represent data • Two-way tables
Key vocabulary:	Total, divide, share, unit fraction, non-unit fraction	Pence, pound, value, change, coin	24 hour clock, half past, quarter past, quarter to, elapsed time	Polygon, right angle, vertices, symmetry, parallel	Quantity, total, difference, represent, frequency
What I will know by the end:	I will be able to apply my new skills and knowledge to a range of situations and representation.				