Year 1 Medium Term Plan

Spring

Spring Term Overview

Addition and Subtraction - 4 weeks

Week 1	1. Represent and use number bonds and related subtraction facts (within 20). Small steps: • Related facts; • Add by counting on; • Add by making 10.
Week 2	1. Read, write and interpret mathematical statements involving +, - and = Small steps: • Add by counting on; • Add by making 10; • Subtraction (not crossing 10);
Week 3	1. Add and subtract 1 digit numbers to/from 20 including zero. Small steps: • Add by making 10; • Subtraction (crossing 10).
Week 4	1. To solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. Small Steps: • Add by counting on; • Find and make number bonds; • Add by making 10; • Subtraction (not crossing 10); • Subtraction (crossing 10); • Related facts; • Compare number sentences.

Number and Place Value - 3 weeks

Week 1	1. Count to 50, forwards and backwards, beginning with 0 or 1, or from any given number. 2. Count, read and write numbers to 50 in numerals. • Numbers to 50 • Tens and ones • Represent numbers to 50
Week 2	1. Given a number, identify 1 more or 1 less. 2. Count in multiples of 2s, 5s and 10s.
Week 3	1. To identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. • Compare numbers within 50

	• Order number within 50

Measurement: Length and Height – 2 weeks

Week 1	1. Measure and begin to record lengths and heights.
Week 2	1. Compare, describe and solve practical problems for: lengths and heights for example, long/short, longer, /shorter, tall/short, double/half.

Measurement: Weight and Volume – 2 weeks plus 1 week assessment

Week 1	1. Measure and begin to record mass/weight, capacity and volume.
Week 2	1. Compare, describe and solve practical problems for mass/weight (for example heavy/light, heavier than, lighter than); capacity and volume (for example, full/empty, more than, less than, half, half full, quarter).
Week 3	1. Assessment.

Year 2 Medium Term Plan

Spring

Geometry: Properties of shape and position & direction (2 weeks)

Week 1	• Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. • Compare and sort common 2-D and 3-D shapes and everyday objects describing similarities and differences e.g. find 2 different 2-D shapes that only have one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices and describe what is different about them.
Week 2	• Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. • Identify 2-D shapes on the surface of 3-D shapes e.g. a circle on a cylinder and a triangle on a pyramid. • Compare and sort common 2-D and 3-D shapes and everyday objects describing similarities and differences e.g. find 2 different 2-D shapes that only have one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices and describe what is different about them.

Fractions (3 weeks)

Week 1	• Recognise, find, name and write fractions ½ and 2/4 of a length, shape, set of objects or quantity and demonstrate understanding that all parts must be equal parts of the whole. • Write simple fractions, for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.
Week 2	• Recognise, find, name and write fractions1/4 and 3/4 of a length, shape, set of objects or quantity and demonstrate understanding that all parts must be equal parts of the whole.
Week 3	• Recognise, find, name and write the fractions 1/3 of a length, shape, set of objects or quantity and demonstrate understanding that all parts must be equal parts of the whole. • Find and compare fractions of amounts e.g. ¼ of £20 = £5 and ½ of £8 = £4 so ½ of £20 is greater than ½ of £8.

Measures (2 weeks)

Week 1	• Choose and use standard units to estimate and measure length in any directions. • Compare and order length (rulers).
Week 2	• Read scales in divisions of ones, twos, fives and tens in a practical situation where all numbers on the scale are given e.g. read the temperature on a thermometer or measure capacities using a measuring jug.

	• Read scales in divisions of ones, twos, fives and tens in a practical situation where not all numbers on the scale are given e.g. a number line with missing labels.

Statistics (1 week)

Week 1	• Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. • Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. • Ask and answer questions about totalling and comparing categorical data.

Money (2 weeks)

Week 1	• Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value: -Count money in pence -Count money in pounds (notes and coins) -Count money in notes and coins • Find different combinations of coins that equal the same amounts of money. -Select money -Make the same amount -Compare money
Week 2	• Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. -Find the total -Find the difference -Find change -Two-step problems

Time (2 weeks)

Week 1 Assessment Week	• Compare and sequence intervals of time. • Remember the number of minutes in an hour and the number of hours in a day. • Read the time on a clock to the nearest 15 minutes. • Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
Week 2	• Read the time on a clock to the nearest 15 minutes. • Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.

Year 3 Medium Term Plan

Spring

Number, Multiplication and Division (3 weeks)

Week 1	1. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 2. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods.
Week 2	1. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 2. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods. 3. Solve problems including missing number problems involving multiplication and division, positive integer scaling problems and correspondence problems in which n objects are connected to m objectives.
Week 3	1. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 2. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods. 3. Solve problems including missing number problems involving multiplication and division, positive integer scaling problems and correspondence problems in which n objects are connected to m objectives.

Measurement (3 weeks)

Week 1	1. Tell and write the time from an analogue clock, including using Roman numerals, 12- hour and 24-hour clocks. Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight.
Week 2	1. Tell and write the time from an analogue clock, including using Roman numerals, 12- hour and 24-hour clocks. Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight. 2. Record and compare time in terms of seconds, minutes and hours. 3. Estimate and read time with increasing accuracy to the nearest minute.
Week 3	1. Estimate and read time with increasing accuracy to the nearest minute. 2. Know the number of seconds in a minute and the number of days in each month, year and leap year. 3. Compare durations of events [e.g. calculate the time taken by particular events or tasks].

Number: Fractions (4 weeks)

Week 1	1. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.
Week 2	1. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. 2. Count up and down in tenths. 3. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.
Week 3	1. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. 2. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
Week 4	1. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. 2. Assessment/consolidation.

Year 4 Medium Term Plan

Spring

Fractions (4 weeks)

Week 1	• Recognise and show, using diagrams, families of common equivalent fractions. - Understand unit fractions. - Understand non- unit fractions. - Show equivalent fractions. - To begin to understand fractions in their simplest form, relating to equivalence.
Week 2	• Recognise that hundredths arise when dividing an object by 100 or when dividing tenths by ten. - Count up and down in hundredths. - To understand what 1/100 (and then non unit hundredths) of a quantity are. - To count up and down in hundredths and complete and create sequences of hundredths.
Week 3	• Add and subtract fractions with the same denominator. - To add fractions with the same denominator. - To subtract fractions with the same denominator. - To prove why denominators need to be equal to add or subtract. - Application of understanding of addition and subtraction of fractions in real life contexts.
Week 4	• Solve problems involving increasingly harder fractions to calculate quantities. • Including non-unit fractions where the answer is over a whole number, e.g. - To draw unit and non-unit fractions of objects. - To calculate unit fractions of amounts. - To calculate non unit fractions of amounts. - To compare the relative size of different fractions of amounts in real life contexts.

Time (2 weeks)

Week 1	• Convert between different units of measure e.g. hour to minute. - To convert between hours and minutes and vice versa. - To convert between minutes and seconds and vice versa. • Read, write and convert time between analogue and digital, 12 and 24 hour clocks. - To read and write time in an analogue 24 hour clock. - To read and write time in a digital 24 hour clock and convert to analogue.
Week 2	• Solve problems involving time. Converting from hours to minutes, to seconds, years, months, weeks and days. - To apply knowledge of months in a year and days in a week in real life contexts. - To calculate and compare durations of time.

Decimals (3 weeks)

Week 1	1. Recognise and write decimal equivalents of any number of tenths or hundredths.
	- To investigate what 1/10 (and non-unit tenths) of an object are and understand how to write them as a decimal.
	- To investigate the place value of digits in the tenths column and understand that 0.1 x 10 = 1
	- To understand how to represent more than 10 lots of 0.1 as a whole number plus tenths.
	- To investigate what 1/100 (and non-unit hundredths) of an object are and understand how to write them as a decimal.
	- To investigate the place value of digits in the hundredths column.
	- To understand how to represent more than 10 lots of 0.01 as a hundredths and tenths.
Week 2	1. Find the effect of multiplying and dividing a one or two-digit number by 10 or 100 identifying the value of the digits in the answer as ones, tenths and hundredths.
	- To investigate the effect of dividing a 1 digit number by 10 and 100.
	2. Recognise and write decimal equivalents to 1/4, 1/2, 3/4.
	- To understand the relationship between decimals and fractions for tenths and hundredths
	- To understand the fraction, decimal equivalents of 1/2, 1/2 and 3/4.
Week 3	1. Compare numbers with the same number of decimal places up to two decimal places.
	- To compare and order decimals in the tenths column.
	- To compare and order decimals with similar tenths values but different hundredths.
	- To compare and order decimals with different tenths and hundredths digits.
	2. Round decimals with one decimal place to the nearest whole number.
	- To round tenths to the nearest 1.
	- To round tenths to the nearest 1 in the context of mm and cm.
	- To prove the rules for rounding tenths.
	- Application of understanding of tenths and hundredths in the context of money.
	- Application of understanding of tenths and hundredths in the context of measure.

Measurement (2 weeks)

Week 1	• Estimate, compare and calculate different measures (money, capacity, weight and length) including conversions.
	- To understand how to write money in pounds and pence.
	- To convert pennies to pounds and pence.
	- To compare amounts of money and quantify the difference.
	- To round amounts of money to the nearest pound.
	- To estimate amounts of money.
	- To add multiple amounts of money to find a total.
Week 2	• Solve simple measure and money problems involving fractions and decimals and decimals to two decimal places.
	- Application of understanding of money in the context of addition and subtraction.
	- Application of understanding of money in the context of multiplication and division.

| Week 3 | Assessment Week |

Year 5 Medium Term Plan

Spring

Number: Multiplication and Division (3 weeks)

Week 1	1. Multiply and divide numbers mentally drawing upon known facts
	   - Recap on tables and methods for mental multiplication
	2. Multiply up to 4 digits by a one or two digit number using a formal written method including long multiplication for two digit numbers.
	   - Use short multiplication to multiply 2,3 and 4 digit numbers by one digit
	   - Use long multiplication to multiply 2,3 and 4 digit numbers by two digits

Week 2	1. Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.
	   - Introduce bus stop method
	   - Discuss remainders and how to show them depending on context
	   - Show remainders as fractions and as a remainder

Week 3	1. Recap formal methods for multiplication and division for up to 4 digits.
	   - Mixed recap of multiplication and division
	2. Solve problems involving addition, subtraction, division and multiplication including understanding the use of the equals sign.
	   - Mixed multistep problems in different contexts
	   - Balancing sums
	   - Maths investigation using all four operations.

Fractions (4 weeks)

Week 1	1. Identify, name and write equivalent fractions of a given fraction represented visually including tenths and hundredths.
	   - Drawing fractions
	   - Fraction walls
	   - Identifying, naming and writing equivalent fractions using multiplication knowledge
	2. Compare and Order fractions whose denominators are multiples of the same number.
	   - Identify equivalent fractions
	   - Drawing fractions
	   - Changing fractions to have the same denominator to compare and order.

Week 2	1. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number
	   - Concrete practice of showing mixed and improper fractions
	   - Pictorial practice of showing mixed and improper fractions
	   - Changing from mixed to improper and vice versa.
	2. Add fractions with the same denominator and denominators that are multiples of the same number.
	   - Adding across fractions

	- Understanding denominations need to be the same - Converting fractions to have the same denominator - Converting improper fractions to mixed numbers

Week 3	1. Subtract fractions with the same denominator and denominators that are multiples of the same number.
	   - Subtracting across fractions
	   - Understanding denominations need to be the same
	   - Converting fractions to have the same denominator
	2. Multiply proper fractions and mixed number by whole number supported by materials and diagrams.
	   - Concrete practice of multiplying fractions
	   - Pictorial practice of multiplying fractions
	   - Multiplying proper fractions by whole numbers

Week 4	1. Solve problems involving addition, subtraction and multiplication including scaling by simple fractions and problems involving simple rates.
	   - Multiplication of fractions problems
	   - Addition and subtraction fraction problems
	   - Mixed number/ improper fraction problems
	   - Fraction investigation

Decimals (3 weeks)

Week 1	1. Read, write, order and compare numbers with up to three decimal places.
	   - Understand terms tenths, hundredths, decimal point, thousandths
	   - Read and write decimal numbers in different contexts
	   - Order and compare decimal numbers
	2. Read and write decimal numbers as fractions (for example 0.71 = 71/100)
	   - Linking tenths and hundredths to 1/10 and 1/100
	3. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
	   - Using prior knowledge of linking 1/10 and 1/100 link 0.003 to 3/1000

Week 2	1. Round decimals with two decimal places to the nearest whole number and to one decimal place.
	   - Recap on round whole numbers and rules
	   - Round decimals to nearest whole number and to one decimal place.
	2. Add and subtract decimal numbers up to three decimal places.
	   - Use formal methods to add decimal numbers
	   - Use formal methods to subtract decimal numbers
	3. Solve problems involving numbers up to three decimal places.
	   - Word problems in different contexts using addition and subtraction
	   - Balancing problems
	   - Making whole numbers by adding certain decimals

Week 3	1. Recognise the per cent symbol (%) and understand that per cent relates to number of parts per 100 and write percentages as a fraction with a denominator 100 and as a decimal.
	   - Recognise percentages as parts of 100 (pictorially represented)
	   - Link percentages to fractions 'out of 100' and vice versa
	   - Link percentages to decimals by showing tenths and hundredths
	   - Recap decimal to fractions
	2. Solve problems which require knowing percentage and decimal equivalence of $\frac{1}{2}$, $\frac{1}{4}$, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.

	- FDP grids links between these - Knowing the link between a denominator of 10 and 100, 25 and 100, 20 and 100, 50 and 100, 5 and 100 etc

Assessment & Consolidation (2 weeks)

Week 1	Assessment
Week 2	Consolidation of areas that assessments have shown to be weakest.

Year 6 Medium Term Plan

Spring

Number: Percentages (2 weeks)

Week 1	1. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
Week 2	1. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Number: Algebra (2 weeks)

Week 1	1. Use simple formulae. 2. Generate and describe linear number sequences. 3. Express missing number problems algebraically.
Week 2	1. Find pairs of numbers that satisfy an equation with two unknowns. 2. Enumerate possibilities of combinations of two variables.

Measures: Converting units (1 week)

Week 1	1. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. 2. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. 3. Convert between miles and kilometres. Assessment

Measurement: Perimeter, Area and Volume

Week 1	1. Recognise that shapes with the same areas can have different perimeters and vice versa. 2. Recognise when it is possible to use formulae for area and volume of shapes.

| Week 2 | 1. Calculate the area of parallelograms and triangles. |
| | 2. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]. |

Number: Ratio (2 weeks)

Week 1	1. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
	2. Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
Week 2	1. Solve problems involving similar shapes where the scale factor is known or can be found.
	2. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Geometry: Properties of Shapes (3 weeks)

Week 1	1. Draw 2-D shapes using given dimensions and angles.
	2. Recognise, describe and build simple 3-D shapes, including making nets.
Week 2	1. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
	2. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Week 3	1. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

EYFS Medium Term Plan

Spring

Addition and Subtraction (3 weeks)

Week 1	1. Says the number that is one more than a given number. 2. Finds on more or one less from a group of up to five objects, then from ten objects. 3. Say which number is one more or one less than a given number.
Week 2	1. Finds the total number of items in two groups by counting all of them. 2. In practical activities and discussion, beginning to use the vocabulary involved in adding. 3. Using quantities and objects they add two single digit numbers. 4. Count on to find the answer.
Week 3	1. In practical activities and discussion, beginning to use the vocabulary involved in subtracting. 2. Using quantities and objects they subtract two single digit numbers (ELG). 3. Count back to find the answer.
	Application and Problem solving: 1. Finds the total number of items in two groups by counting all of them. 2. In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting. 3. Using quantities and objects they add and subtract two single digit numbers. 4. Count on and back to find the answer.

Distance and Positional language (2 weeks)

Week 1	1. Uses positional language. 2. Can describe their relative position such as behind or next to. 3. Children use everyday language to talk about position.
Week 2	1. Children use everyday language to talk about distance.

Shape (3 weeks)

Week 1	1. Shows awareness and interest of similarities of shapes in the environment. 2. Beginning to talk about the shapes of everyday objects e.g. round and tall. 3. Beginning to use mathematical names for flat 2D shapes and mathematical terms to describe shapes. 4. Selects a particular named shape. 5. They explore characteristics of everyday objects and shapes and use mathematical language to describe them. **FOCUS ON 2D SHAPES.**
Week 2	1. Shows awareness and interest of similarities of shapes in the environment. 2. Beginning to talk about the shapes of everyday objects e.g. round and tall. 3. Beginning to use mathematical names for solid 3D shapes and mathematical terms to describe shapes. 4. Selects a particular named shape. 5. They explore characteristics of everyday objects and shapes and use mathematical

	language to describe them.
	6. Talks about the properties of objects.
	FOCUS ON 3D SHAPES.
Week 3	1. Uses familiar objects and common shapes to create and recreate patterns to build models.
	2. They recognise, create and describe patterns.

Money (2 weeks)

Week 1	1. Beginning to use everyday language related to money.
	2. Children use everyday language to talk about money to compare quantities.
	-Focus on recognition of coins and ordering coins by their value.
	-Focus on counting amounts of coins.
Week 2	1. Beginning to use everyday language related to money.
	2. Children use everyday language to talk about money and solve problems.
	-Recap on addition and subtraction within the context of money.
	Assessment Week