EYFS Medium Term Plan

Summer

Doubling, halving and sharing weeks (3 weeks)

Week 1	• Children solve problems involving doubling.
Week 2	• Children solve problems involving halving and sharing • They solve practical problems involving combining groups of 2s, 5s, and 10s
Week 3	• Children solve problems involving halving and sharing • They solve practical problems involving combining groups of 2s, 5s, and 10s

Time and height (3 weeks)

Week 1	• Uses everyday language related to time. • Orders and sequences familiar events.
Week 2	• Measures short periods of time in simple ways. • Children use everyday language to talk about time and solve problems.
Week 3	• Orders two or three items by height. • Uses everyday language to talk about size to compare quantities and solve problems. • Children estimate, measure, compare and order objects.

Capacity (2 weeks)

Week 1	• Orders two or three items by capacity. • Uses everyday language to talk about capacity to compare quantities and solve problems.
Week 2	• Orders two or three items by capacity. • Uses everyday language to talk about capacity to compare quantities and solve problems. • Children estimate, measure, compare and order objects.

Shape and pattern (2 weeks)

Week 1	• Beginning to use mathematical names for flat 2D shapes solid 3D shapes and mathematical terms to describe shapes. • Selects a particular named shape. • They explore characteristics of everyday objects and shapes and use mathematical language to describe them. • Talks about the properties of objects.
Week 2	• Uses familiar objects and common shapes to create and recreate patterns to build models. • They recognise, create and describe patterns.

Addition and subtraction (2 weeks)

Week 1	- Finds the total number of items in two groups by counting all of them. - In practical activities and discussion, beginning to use the vocabulary involved in adding. - Using quantities and objects they add two single digit numbers. - Count on to find the answer.
Week 2	- In practical activities and discussion, beginning to use the vocabulary involved in subtracting. - Using quantities and objects they subtract two single digit numbers. - Count back to find the answer.

Year 1 Medium Term Plan

Summer

Multiplication and Division (3 weeks)

Week 1	• Count in multiples of 2s, 5s and 10s. Small steps: Count in 2s, 5s and 10s. Making equal groups. (WR pgs. 4-7)
Week 2	• Solve one step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. Small steps: Adding equal groups. Arrays. Doubles. (WR pgs. 8-13)
Week 3	• Solve one step problems involving division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. Small steps: Making equal groups- grouping. Sharing equally. (WR pgs. 14-17)

Fractions (2 weeks)

Week 1	• Recognise, find and name half as one of 2 equal parts of an object, shape or quantity. (Compare, describe and solve practical problems for lengths and heights (for example long/short, longer/shorter, tall/short, double/half. Compare, describe and solve problems for mass/weight, for example heavy/light, capacity/volume, for example full/empty, more than/less than, half/half full and quarter)
Week 2	• Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. (Compare, describe and solve practical problems for lengths and heights (for example long/short, longer/shorter, tall/short, double/half. Compare, describe and solve problems for mass/weight, for example heavy/light, capacity/volume, for example full/empty, more than/less than, half/half full and quarter)

Geometry: Position and direction (1 week)

Week 1	• Describe position, direction and movement including whole, half, quarter and three-quarter turns.

Number and Place Value (2 weeks)

Week 1	• Count to 100, forwards and backwards, beginning with 0 or 1, or from any given number. • Count, read and write numbers to 100 in numerals.
Week 2	• Given a number, identify 1 more or 1 less. • 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.

Money (1 week)

Week 1	• Recognise and know the value of different denominations of coins and notes.

Measurement: Time (2 weeks)

Week 1	- Sequence events in chronological order using language (eg before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening). - Recognise and use language relating to dates, including days of the week, weeks, months and years. - Tell the time to the hour and half past the hour and draw the hands on a clock face to show these time.
Week 2	- Compare, describe and solve practical problems for time (eg quicker, slower, earlier, later) and measure and begin to record time (hours, minutes, seconds). - Measure and begin to record time: hours, minutes and seconds.
Week 3	PUMA

Year 2 Medium Term Plan

Summer

Number revision (3 weeks)

Week 1	
Week 2	
Week 3	

SATS (2 weeks)

Week 1	Administering SATs papers
Week 2	Administering SATs papers

Measures 2 weeks

Week 1	• Compare and order lengths, mass, volume/capacity and record the results using >, < and =. (Measurement)
Week 2	• Read the time on a clock to the nearest 15 minutes. (Measurement) • 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. (Measurement)

Fractions 2 weeks

Week 1	• Recognise, find, name and write fractions 1/3, ¼, 2/4 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. (Fractions) • Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½.
Week 2	• Recognise, find, name and write fractions 1/3, ¼, 2/4 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. (Fractions) • 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.

Statistics 3 weeks

Week 1	• Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. (Statistics)
Week 2 Assessment Week	• Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. (Statistics)
Week 3	• Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. (Statistics) • Ask and answer questions about totalling and comparing categorical data. (Statistics)

Year 3 Medium Term Plan

Summer

Fractions (3 weeks)

Week 1	• Recognise and show, using diagrams, equivalent fractions with small denominators. • Solve problems that involve all of the above.
Week 2	• Compare and order unit fractions, and fractions with the same denominators. • Solve problems that involve all of the above.
Week 3	• Add and subtract fractions with the same denominator within one whole • Solve problems that involve all of the above.

Measurement – Time (3 weeks)

Week 1	• Know the number of seconds in a minute and the number of days in each month, year and leap year
Week 2	• Know the number of seconds in a minute and the number of days in each month, year and leap year
Week 3	• Compare durations of events e.g. to calculate the time taken by particular events or tasks.

Geometry – Properties of shape (2 weeks)

Week 1	• Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3=D shapes in different orientations and describe them. • Recognise angles as a property of shape or a descriptions of a turn.
Week 2	• Identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than right angle • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Measurements – Mass and capacity (3 weeks)

Week 1	• Measure and compare volume/capacity (l/ml).
Week 2	• Measure and compare mass (kg/g).
Week 3	• Add and subtract volume/capacity (l/ml), add and subtract mass (kg/g). • Assessment/consolidation

Year 4 Medium Term Plan

Summer

Geometry (4 weeks)

Week 1	- Identify acute and obtuse angles and compare and order angles up to 180 degrees. - Recognising acute and obtuse angles - Estimating and comparing angles - Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. - Knowing all about triangles - Knowing all about quadrilaterals - Knowing more about polygons - Recognise where angles are greater than two right angles. - Know the term 'straight angle' refers to two right angles together.
Week 2	- Identify lines of symmetry in 2D shapes presented in different orientations. - Recognising vertical line symmetry - Recognising horizontal line symmetry - Recognising line symmetry in different orientations - Recognising multiple lines of symmetry - Complete a simple symmetric figure with respect to a specific line of symmetry. - Completing line symmetry using regular shapes - Completing line symmetry using irregular shapes - Completing line symmetry in different orientations - Testing for line symmetry
Week 3	- Describe positions on a 2D grid as coordinates in the first quadrant. - Understanding the x and y axes - Describing coordinates - Plot specified points and draw sides to complete a given polygon. - Learning to plot coordinates - Applying understanding of coordinates - Researching real life uses of coordinates
Week 4	- Describe movements between positions as translations of a given unit to the left/ right and up/ down. - Understanding translations - Completing translations - Researching real life uses of translation and reflection

Time (1 week)

Week 1	- Convert between units of time. - Convert between 12 and 24hr clocks. - Calculate time intervals that cross the hour boundary.

Statistics (2 weeks)

Week 1	Interpret and present discrete data. - Solve comparison, sum and difference problems using discrete data presented in bar charts, pictograms, tables and other graphs.
Week 2	Interpret and present continuous data. - Solve comparison, sum and difference problems using continuous data presented in line graphs, tables and other graphs.

Measurement (2 weeks)

Week 1	- Measure and calculate the perimeter of a rectilinear figure (including compound shapes) in cm and m. - Perimeter on a grid - Perimeter of a rectangle - Perimeter of rectilinear shapes - Convert between units of measure: kilometres, metres, centimetres, millimetres.
Week 2	Solve problems involving area and perimeter. - Calculating the perimeters of compound shapes - Thinking about missing lengths - Applying understanding of perimeters - Understanding area - Calculating area
Week 3	Assessment week

Year 5 Medium Term Plan

Summer

Number recap & Decimals (1 week)

Week 1	1. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000, 100000 - Round whole numbers to the nearest 10, 100, 1000, 10000, 100000 - 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. - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 - Place value push on multiplying and dividing by 10, 100 and 1000 - Multiplying whole numbers up to 4 digits by one of two digits using a formal written method. - Recap on multiplication methods.

Measurement – Converting units and Volume (3 weeks)

Week 1	- Converting between different units of metric measure (e.g km,m cm,m cm,mm g,kg l,ml) - Using knowledge of multiplying and diving by 10, 100 and 1000 convert between measurements of length. - Using knowledge of multiplying and diving by 10, 100 and 1000 convert between measurements of weight. - Using knowledge of multiplying and diving by 10, 100 and 1000 convert between measurements of capacity. - Solve problems involving converting between units of measurement. - Using all four operations solve problems in context using conversions of measurement.
Week 2	- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. - Look at differences concrete of different measurements - Plot on a line graph conversion charts - Solve problems involving converting between units of time - Recap of analogue and digital times - Recap of timetables - Solve word problems involving time
Week 3	- Estimate volume (for example using 1cm3 blocks to build cuboids) and capacity. - Concrete use of blocks to show volume - Use of water to show capacity and different sizes - Use all four operations to solve problems involving measure. - All four operations mixed word multi step problems in context of measurement

Geometry – Properties of shape (3 weeks)

Week 1	- Identify 3D shapes including cubes and other cuboids from 2D representations. - Recap 2D shapes and their properties - Identify 3D shapes - Use of vocab: vertices, edges and faces - Identify nets and make and draw for different 3D shapes. - Use the properties of rectangles to deduce related facts and find missing lengths and angles - Using prior knowledge of shape to find missing lengths and angles.
Week 2	- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. - Maths investigation around regular and irregular shapes - Sorting regular and irregular shapes due to properties. - Know angles are measured in degrees and estimate and compare acute, obtuse and reflex angles. - Understand terms: acute, obtuse and reflex - Find acute, obtuse and reflex angles in everyday objects - Know acute angles between 0 and 89, right angle is 90, obtuse is 91 – 179, straight line 180, reflex 181 – 359 and a full circle is 360. - Identify angles at a point and one whole turn, angles at a point on a straight line and half a turn and other multiples of 90 degrees. - Directional turns
Week 3	- Draw given angles and measure them in degrees - Understand how to use a protractor to measure angles - Measure angles using a protractor - Understand how to use a protractor to draw angles - Draw angles using a protractor - Find missing angles using a protractor on a straight line (missing angles)

Geometry – Position and direction (1 week)

Week 1	- Identify, describe and represent the position of a shape following a reflection or translation using the appropriate language and know that the shape has not changed. - Reflecting shapes on a grid - Reflecting shapes on a non-linear grid - Recap co-ordinates - Translate shapes across a grid - Give co-ordinates for newly translated shapes - Use all language appropriately in context.

Assessment (1 week)

Week 1	PiXL assessments (arithmetic/Paper 2/Paper 3)

Consolidation (1 week)

Week 1	Consolidation and prep for Y6 from test data

Year 6 Medium Term Plan

Summer

Problem solving (2 weeks)

Week 1	- solve number problems and practical problems that involve all elements of place value - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division
Week 2	- solve problems which require answers to be rounded to specified degrees of accuracy - solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts solve problems involving the calculations of percentages (e.g. of measures) such as 15% of 360 and the use of percentages for comparison solve problems involving similar shapes, where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples - solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate

Statistics (2 weeks)

Week 1	interpret and construct pie charts and line graphs and use these to solve problems
Week 2	calculate and interpret the mean as an average.

Investigations (2 weeks)

Week 1	- are prepared to approach problems from different directions and persist in finding solutions. - generalise patterns and relationships;
Week 2	- use mathematical symbols confidently; - develop concise logical arguments.

Consolidation and Year 6/7 Maths Transition (5 weeks)

	- building on the approach to calculation developed in Key Stage 2, which emphasises mental - methods and gradually refined written methods, extending to calculations with fractions, - decimals and percentages - developing effective use of calculators, including choosing appropriate methods for estimating, - calculating and checking. - carry out short multiplication and division of numbers involving decimals - carry out long multiplication of a three-digit by a two-digit integer - identify and use the appropriate operations to solve word problems involving numbers and - quantities, and explain methods and reasoning