Curriculum Planning – Key concepts and activities in each Year Group
Maths
KS2

Year 3

Theme 1

Number: Place Value
Hundreds
Represent numbers to 1000
100s, 10s and ones
Number line to 1000
Find 1, 10, 100 more or less than a given number
Compare objects and numbers to 1000
Order numbers
Count in 50s

Number: Addition and Subtraction
Add and subtract multiples of 100
Add and subtract 3 digit and 1 digit numbers
Subtract a 1 digit number from a 3 digit number
Add and subtract 3 digit and 2 digit numbers
Subtract a 2 digit number from a 3 digit number
Add and subtract 100s
Spot the pattern
Add and subtract 3 digit numbers

Number: Multiplication and Division
Equal groups
Multiply and divide by 3, 4 and 8

Theme 2

Measurement: Money
Pounds and pence
Convert pounds and pence
Add and subtract money
Give change

Statistics
Pictograms
Bar charts
Tables

Measurement: Length & Perimeter
Measure length
Equivalent lengths – m, cm, mm
Compare lengths
Add and subtract lengths
Measure and calculate perimeter

Number: Multiplication and Division
Comparing statements
Related calculations
Multiply and divide 2 digit by 1 digit
Scaling

Theme 3

Number: Fractions
Unit and non unit fractions
Making the whole
Tenths
Fractions on a number line
Fractions of a set of objects
Equivalent fractions
Compare and order fractions
Add and subtract fractions

Measurement: Time
Months and years
Hours in a day
Telling the time to the minute and 5 minutes
Using am & pm
24 hour clock
Finding and comparing durations
Start and end times
Measuring time in seconds

Theme 4

Geometry: Properties of shape
Turns and angles
Right angles
Compare angles
Draw angles
Horizontal and vertical
Parallel and perpendicular
Recognise and describe 2D and 3D shapes
Make 3 –D shapes

Measurement: Mass and Capacity
Measure mass
Compare mass
Add and subtract mass
Measure and compare capacity
Add and subtract capacity

Consolidation and Revision

Year 4

Theme 1

Number: Place value
Roman numerals to 100
Rounding to the nearest 10, 100 & 1000
100s, 100s 10s and 1s
Partioning
Number line to 10,000
1000 more/ less
Compare and order numbers
Count in 25s
Negative numbers

Number: Addition and Subtraction
Add and subtract 1s, 10s, 100s and 1000s
Add and subtract two 4 digit numbers
Efficient subtraction
Estimate answers
Checking strategies

Measurement: Time
Hours, minutes and seconds
Years months weeks and days
Analogue to digital

Theme 2

Measurement: Length, Area and Perimeter
Kilometres
Perimeter on a grid
Perimeter of a rectangle
Perimeter of rectilinear shapes
Area
Counting squares
Making shapes
Comparing area

Number: Multiplication and Division
Multiply by 10 & 100
Divide by 10 & 100
Multiply by 1 and 0
Multiply and divide by 6, 7 and 9
6, 7 and 9 times table and division facts
11 & 12 times tables
Multiply 3 numbers
Factor pairs
Written methods
Multiply and divide 2 digits by 1 digit
Multiply and divide 3 digits by 1 digit
Correspondence patterns

Theme 3

Number: Fractions
Equivalent fractions
Fractions greater than 1
Count in fractions
Add and subtract fractions
Subtract fractions from whole amounts
Calculate fractions of a quantity
Problem solving – calculate quantities

Number: Decimals
Recognise 10ths and 100ths
Tenths as decimals
Tenths on a place value grid
Divide 1 digit by 10
Divide 2 digits by 10
Hundredths as decimals and on a place value grid
Divide 1 or 2 digits by 100
Make a whole
Write, order, and compare decimals
Round decimals
Halves and quarters

Theme 4

Measurement: Money
Ponds and pence
Ordering money
Estimating money
Four operations

Statistics
Interpret charts
Comparison, sum and difference
Introducing line graphs

Geometry: Properties of Shape
Identify angles
Compare and order angles
Triangles
Quadrilaterals
Lines of symmetry

Geometry: Position and Direction
Describe position and movement on a grid
Draw and move on a grid

Revision and Consolidation

Year 5

Theme 1	Theme 2	Theme 3	Theme 4
Number: place Value Number to 1, 000,000 Compare, round and order numbers to 100,000 Count in 100s, 1000s, 10000's Roman numerals Negative numbers **Number: addition and subtraction** Add and subtract 4 digit numbers Compare and estimate larger numbers Multi-step problems Inverse operations **Statistics** Read and interpret line graphs Draw line graphs Read and interpret two way tables timetables **Number: Multiplication and division** Multiples, factors, common factors, Prime and square numbers Cube numbers Multiply and divide by 10, 100, 1000 **Measurement: Perimeter and area** Measure and calculate perimeter Measure and calculate area Area of compound and irregular shapes	**Number: Multiplication and division** Multiply 4-digits by 1-digit Multiply 2-digits (area model) Multiply 2-digits by 2-digits Multiply 3-digits by 2-digits Multiply 4-digits by 2-digits Divide 4-digits by 1-digit Divide with remainders **Number: Fractions** Compare and order fractions Identify, name and write equivalent fractions of a given fraction, Recognise mixed numbers and improper fractions and convert Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Equivalent fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Number sequences Compare and order fractions less than and greater than 1 Add and subtract fractions Add 3 or more fractions Add mixed numbers **Number: Decimals and percentages** Decimals up to 2 d.p. Decimals as fractions Understand thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages Percentages as fractions and decimals Equivalent F.D.P.	**Number: Decimals** Adding/ subtracting and rounding decimals Solving two step problems Decimal sequencing Multiplying and dividing decimals **Geometry: Properties of shapes** Measuring angles with a protractor Drawing angles and lines Calculating angles around a point Regular and irregular polygons Reasoning around shapes	**Geometry: Position and direction** Position in the first quadrant Translation Translation with coordinates reflection **Measurement: Volume** Compare volume Estimate volume Estimate capacity **Measurement: Converting units** Kilograms & kilometres Milligrams and millilitres Metric units Imperial units Converting units of time Timetables **Revision and consolidation**

Year 6

Theme 1	Theme 2	Theme 3	Theme 4
Number: Place value Numbers to 10 million Compare, round and order any number Negative numbers. **Number: Four operations** Add and subtract integers Multiply up to a 4 digit number by 2 digit numbers Short division Long division Common factors and multiples Primes to 100 Squares and cubes Order of operations Mental calculations and estimation Reason from known facts **Measurement: Volume** Volume – inc vol of cubes/cuboids and cylinders, formula for calculating volume.	**Number: Fractions** Simplifying and comparing fractions Adding and subtracting fractions Mixed addition and subtraction Fractions and their Decimal Equivalence Multiplying and Dividing fractions Multiplying decimals 2 d.p. by whole numbers Written division equivalence and long division (formal written method) % Fractions decimals – equivalences, comparing and problems involving all 3. Problems with Rounding (revision) **Geometry: Position and direction** The first quadrant Four quadrants Translations Reflections **Statistics** Read, draw and interpret line graphs Solve problems using line graphs Pie charts The mean	**Geometry: Properties of shape** Measure with a protractor Angles Calculate angles Vertically opposite angles Angles in a triangle Angels in quadrilaterals Regular and irregular polygons Calculating missing angles in regular polygons, quadrilaterals and triangles) **Measurement: Perimeter, area and volume** Area and perimeter inc. compound shapes Formulae for volume/area/perimeter of parallelograms and triangles Properties of circles and related terminology Problems with measurement, conversion **Number: Algebra** Algebraic equations **Number: Ratio** Ratio and proportion Scale factors General arithmetic revision.	**Investigations and problem solving** Extended project work to include: inheritance investigation, school trip /holiday budgeting project Enterprise Project Continued arithmetic fluency practice