WJA Maths LTP – Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12

Autumn

Mental Maths Objectives

Counting in 2s, 5, and 10s

Number bonds to 100

Number bonds for subtraction

+ revise previous unit objectives

Number: Place Value (Weeks 1–4)

National Curriculum objectives
1. count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
2. Rrecognise the place value of each digit in a three-digit
3. Compare and order numbers up to 1000
4. Identify, represent and estimate numbers using different representations
5. Read and write numbers up to 1000 in numerals and in words
6. Solve number problems and practical problems involving these ideas.

Small Steps -
Week 1
- Hundreds
- Represent numbers to 1,000   `Use numbers as words for spellings`
- 100s, 10s and 1s (1 & 2)
Week 2
- Number line to 1,000
- Compare objects to 1,000
- Compare numbers to 1,000
- Order numbers
Week 3
- Find, 1, 10, 100 more than a given number
- Count in 50s

Number: Addition and Subtraction (Weeks 5–8)

National Curriculum objectives
1. Add and subtract numbers mentally, including:
a) three-digit number and ones
b) a three-digit number and tens
c) a three-digit number and hundreds
2. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
3. Estimate the answer to a calculation and use inverse operations to check answers
4. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Small Steps -
Week 1
- All addition objectives – not crossing 10s/100s
Week 2
- All addition objectives – crossing 10s/100s
Week 3
- All subtraction objectives – not exchanging
Week 4
- All addition objectives – exchanging

`Refer to Academy Caluculation policy for formal methods & WR planning for problem solving & reasoning activities`
Week 5
- Addiitonal problem solving & reasoning to apply all of the above   `introduce money into plenaries`

`Estimate answers to calculations`
`Check answers`

Number: Multiplication and Division (Weeks 9–12)

National Curriculum objectives
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 that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
3. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Small Steps -
Week 1
- `Multiple by 2, 5 and 10`
- `Divide by 2, 5 and 10`
- `2, 5 and 10 times table`
Week 2
- Multiple & divide by 3
- 3 times table
Week 3
- Multiple & divided by 4
- 4 times table
Week 4
- Multiple& divide by 8
- 8 times table

`problem solving throughout whole unit`
`Consider using pictograms with 1 picture representing 2,5,10,3,4 or 8`

Cross curricular links

Spring

Mental Maths Objectives

3, 4 and 8 times table

Doubles and halves to 20 and beyond

+ revise previous unit objectives

Number: Multiplication and Division (Weeks 1–3)

National Curriculum objectives
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 that they know, including for two-digit numbers times one-digit numbers, using mental and formal written methods
3. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Small Steps -
Week 1
- Consolidate 3, 4 and 8 times table
- Comparing statements
- Related calculations
Weeks 2 & 3
- Multiply 2 digits by 1 digit (1 & 2)
- Divde 2 digits by 1 digit (1,2 & 3)
- Scaling
- How many ways

`Refer to Academy Caluculation policy for formal methods`

Measurement: Money

National Curriculum objectives
3. Add and subtract amounts of money to give change, using both £ and p in practical contexts

Small Steps -
Week 1
- Pounds and pence
- Convert pounds and pence
- Add money
Week 2
- Subtract money
- Give change

Statistics

National Curriculum objectives
1. interpret and present data using bar charts, pictograms and tables
2. Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables

Small Steps -
Week 1
- Pictograms
- Bar charts
- Tables

`Use 2s, 5s, 10s, 3s, 4s and 8s`

Measurement: Length & Perimeter

National Curriculum objectives
1. Measure, compare, add and subtract: lengths (m/cm/mm)
2. Measure the perimeter of simple 2-D shapes

Small Steps -
Week 1
- Measure length
- Measue length (m)
- Equivalent lengths – m & cm
- Equivalent lengths – mm & cm
Week 2
- Compare lengths
- Add lengths
- Subtract lengths
Week 3
- Measure perimeter
- Calculate perimeter

Number: Fractions

National Curriculum objectives
2. Recognise and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators
3. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
4. Recognise and show, using diagrams, equivalent fractions with small denominators

Small Steps -
Week 1
- `Make equal parts`
- `Recognise and find a half & a quarter`
Week 2
- `Recognise and find a third`
- `Unit fractions`
Week 3
- `Non-unit fractions`
- `Equivalence of ½ and 2/4`
- `Count in fractions`

Number: Fractions

National Curriculum objectives
1. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10

Small Steps -
Week 1
- Making the whole
- Tenths
- Count in tenths
- Tenths as decimals

`Summer Term objectives`

Cross curricular links

Summer

2, 3, 4, 5, 8 and 10 times tables

Place value to 1,000

+ revise previous unit objectives

Number: Fractions

National Curriculum objectives
1. Count up and down in tenths; 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 nonunit fractions with small denominators
3. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
4. Recognise and show, using diagrams, equivalent fractions with small denominators
5. Add and subtract fractions with the same denominator within one
6. Compare and order unit fractions, and fractions with the same denominators 7. Solve problems that involve all of the above

Small Steps -
Week 1
- Fractions on a number line
- Fractions of a set of objects (1, 2 & 3)
Week 2
- Equivalent fractions (1,2 & 3)
Week 3
- Compare fractions
- Order fractions
Week 4
- Add fractions
- Subtract fractions

Measurement: Time

National Curriculum objectives
1. Tell and write the time from an analogue clock, including using `Roman numerals from I to XII`, and 12-hour and 24-hour clocks
2. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use correct vocabulary

Small Steps -
Week 1
- O' clock and half past/ quarter past and quarter to
- Telling the time to 5 minutes
Week 2
- Months and years   `You could use months for this week's spellings`
- Hours in the day
- Using am and pm
- 24 hour clock
- `Telling the time to 5 minutes  -focus`   `Add online time games to homework grids`
Week 3
- Finding the duration
- Comparing durations
Week 4
- Start and end times
- Measuring time in seconds

Geometry: Shape

National Curriculum objectives
1. Draw 2-D shapes, make 3-D shapes; recognise 3-D shapes and describe them
2. Recognise angles as a property of shape or a description of a turn
3. Identify right angles, recognise that 2 right angles make a half-turn, 3 make 3 quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle
4. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines

Small Steps -
Week 1
- Turns and angles
- Right angles in shapes
- Compare angles
- Draw accurately
Week 2
- Horizontal and vertical
- Parallel and perpendicular
- Recognise and describe 2D and 3D shapes
- Make 3D shapes

Measurement: Mass & Capacity

National Curriculum objectives
1. Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)

Small Steps -
Week 1
- `Compare mass`
- Measure mass (1&2)
- Compare mass
- Add and subtract mass
Week 2
- `Compare volume`
- Measure capacity (1&2)
- Compare capacity
- Add and subtract capacity
- `Temperature`

Cross curricular links

Link for planning https://whiterosemaths.com/resources/primary-resources/primary-sols/ (includes example videos)   `Tips`   `Additional objective/ method/ unit`   `Things to consider for planning`   `Recapping from previous year/ term`