



# Federation of Golden Flatts and Lynnfield Primary Schools

## Maths Medium-Term Plan: Year 3-4 (Year A)

### Autumn Term



Place Value	Position & Direction	Add & Subtract	Assessment	Length & Perimeter
4 weeks	2 weeks	5 weeks	1 week	3 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Represent numbers to HTO
- Partition numbers to HTO
- Value of digits to HTO
- Number Line to HTO
- PS Lesson: value of digits (more than one possibility)
- Represent numbers to THTO
- Partition THTO
- Value of digits to THTO
- Numberlines
- 1, 10, 100, 1000 more less
- PS Lesson: PV and value of digits (more than possibility)
- Compare two numbers using < > =
- Order sets of numbers
- PS Lesson: compare & order (visual)
- Round numbers to nearest 10
- Round numbers to nearest 100
- Round numbers to nearest 1000
- Round to nearest 10, 100, 100 within others (e.g. 424 to nearest 10 / 3908 to nearest 100)
- PS Lesson: rounding
- Assessment, Pause & Stretch

- Reading coordinates in the first quadrant
- Plotting coordinates in the first quadrant
- Translating points
- Describing translations
- PS Lesson: coordinates/translation (logic)
- Assessment
- Pause & Stretch
- PS Skills Lesson: trial & improvement

- Addition concrete phase (no regroup and regroup) – calculation policy
- Addition pictorial phase (no regroup & regroup) – calculation policy
- Abstract – no regrouping
- Abstract – 1 piece of regrouping
- Abstract – 2 pieces of regrouping
- Abstract – mixed
- PS Lesson: columnar addition (more than one possibility)
- subtraction concrete phase (no exchange and exchange) – calculation policy
- subtraction pictorial phase (no exchange & exchange) – calculation policy
- Abstract – no exchanging
- Abstract – 1 piece of exchanging
- Abstract – 2 pieces of exchanging
- Abstract – mixed
- PS Lesson: columnar subtraction (multi-step)
- Assessment
- Pause & Stretch
- PS Skills Lesson: trial & improvement

- Monday: arithmetic paper
- Tuesday: reasoning paper
- Wednesday: fluency checks
- Thursday: unpick arithmetic paper
- Friday: unpick reasoning paper

- Millimetres & Centimetres (Including Conversion)
- Millimetres & Centimetres (Mixed)
- Centimetres & Metres (Including Conversion)
- Centimetres & Metres (Mixed)
- Kilometres
- PS Lesson: converting Units Of Length (real-life word / multi-step)
- Adding Lengths
- Subtracting Lengths
- PS Lesson: length Calculations (real-life word / multi-step)
- Calculating Rectilinear Perimeter (2L + 2B)
- Calculating Rectilinear Perimeter 2(L + B)
- Decision making on calculating perimeter
- Calculating Regular Shape Perimeter
- PS Lesson: perimeter (real-life word / multi-step)
- Assessment
- Pause & Stretch
- PS Skills Lesson: working systematically



Federation of Golden Flatts and Lynnfield Primary Schools  
**Maths Medium-Term Plan: Year 3-4 (Year A)**  
 Autumn Term



Multiplication & Division	Assessment	Area
10 weeks	1 week	2 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Multiples of 10
- Scaled facts x10, x5, x2
- Scaled facts x4
- Scaled facts x8
- Scaled facts x3
- Scaled facts ÷10, ÷5, ÷2
- Scaled facts ÷4
- Scaled facts ÷8
- Scaled facts ÷3
- Mixed x and ÷ scaled facts
- PS Lesson: multiples of 10 / related calculations (rules and patterns)
- TO x O concrete stage from calculation policy
- TO x O pictorial stage from calculation policy
- TO x O abstract stage 1 from calculation policy
- TO x O abstract stage 2 from calculation policy
- TO x O abstract stage 2 from calculation policy
- TO x O abstract stage 2 from calculation policy
- PS Lesson: 2 x 1 multiplication (rules and patterns)
- Linking multiplication and division
- TO ÷ O concrete stage
- TO ÷ O pictorial stage no remainders – number line include VF
- TO ÷ O pictorial stage with remainders – number line include VF
- TO ÷ O abstract stage with remainders – number line include VF
- TO ÷ O abstract stage with remainders – number line include VF
- PS Lesson: division TO ÷ O (working backwards)
- Scaling (bar models)
- PS Lesson: bar models (real-life word)
- Multiply by 10
- Multiply by 100
- divide by 10
- divide by 100
- PS Lesson: powers of 10 (working backwards)
- Concrete phase from calculation policy (no regrouping and regrouping)
- pictorial phase from calculation policy (no regrouping and regrouping)
- Abstract: Expanded Short multiplication 3 x 1 (top right model of calculation policy)
- Abstract: Short multiplication 3 x 1 no regrouping (bottom right model of calculation policy)
- Abstract: Short multiplication 3 x 1 & 1 piece of regrouping (bottom right model of calculation policy)
- Abstract: Short multiplication 3 x 1 & 2 pieces of regrouping (bottom right model of calculation policy)
- Abstract: Short multiplication 3 x 1 mixed practice of lessons 11 to 13
- PS Lesson: short multiplication (multi-step)
- Concrete & pictorial from calculation policy
- Abstract: Division 3 by 1 (no regroup or remainder) from calculation policy
- Abstract: Division 3 by 1 (remainder but no regrouping within) from calculation policy
- Abstract: Division 3 by 1 (remainder and regrouping within) from calculation policy
- Abstract: Division 3 by 1 mixed from calculation policy
- PS Lesson: division (rules and patterns)
- Assessment, Pause & Stretch
- PS Skills Lesson: working collaboratively

- Monday: arithmetic paper
- Tuesday: reasoning paper
- Wednesday: fluency checks
- Thursday: unpick arithmetic paper
- Friday: unpick reasoning paper

- What is area and Count squares?
- Make shapes
- Compare areas
- PS Lesson: area (open-ended)
- Assessment, Pause & Stretch
- PS Skills Lesson: finding starting points



**Federation of Golden Flatts and Lynnfield Primary Schools**  
**Maths Medium-Term Plan: Year 3-4 (Year A)**  
 Autumn Term



Fractions	Assessment	Decimals
7 weeks	1 week	3 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>Wholes, equal parts and unequal parts</li> <li>Match fractions to division</li> <li>Match fractions to fraction notation</li> <li>Order unit fractions by size of denominator</li> <li>Repeated addition of unit fractions to form a non-unit fraction</li> <li>Repeated addition of unit fractions to form a whole</li> <li>Non-unit fractions</li> <li>Compare and order non-unit fractions with same denominator</li> <li>Compare and order non-unit fractions with same numerator</li> <li>Practice Lesson: fractional sense &lt;1</li> <li>PS Lesson: fractional sense &lt;1 (visual)</li> <li>Understand mixed numbers</li> <li>Understand improper fractions</li> <li>Mixed into improper</li> <li>improper into mixed</li> <li>Compare and order mixed numbers using fractional sense: same whole and unit fraction</li> <li>Compare and order mixed when wholes are different</li> <li>Compare and order mixed with same wholes and non-unit</li> <li>PS Lesson: fractional sense &gt;1 (visual)</li> <li>Represent unit fractions of amounts as bar models</li> <li>Represent unit fractions of amounts as division equations</li> <li>Practice Lesson: fractions of amounts (unit)</li> <li>PS Lesson: fractions of amounts (real-life word / multi-step)</li> <li>Add fractions with same denominator (not making whole)</li> <li>Add fractions with same denominator (making whole)</li> <li>Add on fractions using a numberlines</li> <li>Add involving mixed numbers (2 lessons)</li> <li>Subtract fractions from fractions</li> <li>Subtract fractions from whole by converting whole to a fraction</li> <li>Subtract involving mixed numbers (2 lessons)</li> <li>Practice Lesson: add and subtract fractions</li> <li>PS Lesson: add and subtract fractions (real-life word / multi-step)</li> <li>Assessment</li> <li>Pause &amp; Stretch</li> <li>PS Skills Lesson: visualising</li> </ul> | <ul style="list-style-type: none"> <li>Monday: arithmetic paper</li> <li>Tuesday: reasoning paper</li> <li>Wednesday: fluency checks</li> <li>Thursday: unpick arithmetic paper</li> <li>Friday: unpick reasoning paper</li> </ul> | <ul style="list-style-type: none"> <li>Tenths as fractions</li> <li>Tenths as decimals including PV Chart</li> <li>Tenths on numberlines</li> <li>Hundredths as fractions</li> <li>Hundredth as decimals including PV Chart</li> <li>Hundredth on numberlines</li> <li>Divide one and two digit numbers by 10</li> <li>Divide one and two digit numbers by 100</li> <li>Make a whole with tenths and hundredths</li> <li>Partition decimals</li> <li>Compare decimals</li> <li>Order decimals</li> <li>Round decimals with 1 dp to nearest whole</li> <li>Assessment, Pause &amp; Stretch</li> <li>PS Skills Lesson: generalising and conjecturing</li> </ul> |
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# Federation of Golden Flatts Primary Schools

## Maths Medium-Term Plan: Year 3-4 (Year B)

### Autumn Term



Place Value	Money	Add & Subtract	Assessment	Properties of Shape
4 weeks	2 weeks	5 weeks	1 week	3 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- |   |   |  |  |  |
|---|---|--|--|--|
| <ul style="list-style-type: none"> <li>Represent numbers to HTO</li> <li>Partition numbers to HTO</li> <li>Value of digits to HTO</li> <li>Number Line to HTO</li> <li>PS Lesson: value of digits (more than one possibility)</li> <li>Represent numbers to THTO</li> <li>Partition THTO</li> <li>Value of digits to THTO</li> <li>Numberlines</li> <li>1, 10, 100, 1000 more less</li> <li>PS Lesson: PV and value of digits (more than possibility)</li> <li>Compare two numbers using &lt; &gt; =</li> <li>Order sets of numbers</li> <li>PS Lesson: compare &amp; order (visual)</li> <li>Round numbers to nearest 10</li> <li>Round numbers to nearest 100</li> <li>Round numbers to nearest 1000</li> <li>Round to nearest 10, 100, 100 within others (e.g. 424 to nearest 10 / 3908 to nearest 100)</li> <li>PS Lesson: rounding</li> <li>Assessment, Pause &amp; Stretch</li> </ul> | <ul style="list-style-type: none"> <li>Money as decimals</li> <li>Convert between pounds and pence</li> <li>PS Lesson: converting between pounds and pence (more than one possibility)</li> <li>Compare amounts of money</li> <li>Estimate with money</li> <li>Calculate with money – use calculation policy methods</li> <li>PS Lesson: money problems real-life (multi-step)</li> <li>Assessment</li> <li>Pause &amp; Stretch</li> <li>PS Skills Lesson: trial &amp; improvement</li> </ul> | <ul style="list-style-type: none"> <li>Addition concrete phase (no regroup and regroup) – calculation policy</li> <li>Addition pictorial phase (no regroup &amp; regroup) – calculation policy</li> <li>Abstract – no regrouping</li> <li>Abstract – 1 piece of regrouping</li> <li>Abstract – 2 pieces of regrouping</li> <li>Abstract – mixed</li> <li>PS Lesson: columnar addition (more than one possibility)</li> <li>subtraction concrete phase (no exchange and exchange) – calculation policy</li> <li>subtraction pictorial phase (no exchange &amp; exchange) – calculation policy</li> <li>Abstract – no exchanging</li> <li>Abstract – 1 piece of exchanging</li> <li>Abstract – 2 pieces of exchanging</li> <li>Abstract – mixed</li> <li>PS Lesson: columnar subtraction (multi-step)</li> <li>Assessment</li> <li>Pause &amp; Stretch</li> <li>PS Skills Lesson: trial &amp; improvement</li> </ul> | <ul style="list-style-type: none"> <li>Monday: arithmetic paper</li> <li>Tuesday: reasoning paper</li> <li>Wednesday: fluency checks</li> <li>Thursday: unpick arithmetic paper</li> <li>Friday: unpick reasoning paper</li> </ul> | <ul style="list-style-type: none"> <li>Angles or not</li> <li>Right angles</li> <li>Classify right, acute and obtuse angles (use geostrips for input)</li> <li>Draw right, acute and obtuse angles</li> <li>Horizontal and vertical</li> <li>Parallel lines</li> <li>Perpendicular lines</li> <li>Name and classify 2d shapes</li> <li>Draw 2d shapes including measurements</li> <li>Complete a symmetrical pattern</li> <li>Folding for symmetry in 2d shapes</li> <li>Lines of symmetry using a mirror</li> <li>Reflect polygons over a line of symmetry</li> <li>Name and classify 3d shapes</li> <li>Make 3d shapes</li> <li>PS Lesson: shapes (rules &amp; patterns)</li> <li>Assessment</li> <li>Pause &amp; Stretch</li> <li>PS Skills Lesson: working systematically</li> </ul> |
|---|---|--|--|--|



Multiplication & Division	Assessment	Statistics
10 weeks	1 week	2 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Multiples of 10
- Scaled facts x10, x5, x2
- Scaled facts x4
- Scaled facts x8
- Scaled facts x3
- Scaled facts ÷10, ÷5, ÷2
- Scaled facts ÷4
- Scaled facts ÷8
- Scaled facts ÷3
- Mixed x and ÷ scaled facts
- PS Lesson: multiples of 10 / related calculations (rules and patterns)
- TO x O concrete stage from calculation policy
- TO x O pictorial stage from calculation policy
- TO x O abstract stage 1 from calculation policy
- TO x O abstract stage 2 from calculation policy
- TO x O abstract stage 2 from calculation policy
- TO x O abstract stage 2 from calculation policy
- PS Lesson: 2 x 1 multiplication (rules and patterns)
- Linking multiplication and division
- TO ÷ O concrete stage
- TO ÷ O pictorial stage no remainders – number line include VF
- TO ÷ O pictorial stage with remainders – number line include VF
- TO ÷ O abstract stage with remainders – number line include VF
- TO ÷ O abstract stage with remainders – number line include VF
- PS Lesson: division TO ÷ O (working backwards)
- Scaling (bar models)
- PS Lesson: bar models (real-life word)
- Multiply by 10
- Multiply by 100
- divide by 10
- divide by 100
- PS Lesson: powers of 10 (working backwards)
- Concrete phase from calculation policy (no regrouping and regrouping)
- pictorial phase from calculation policy (no regrouping and regrouping)
- Abstract: Expanded Short multiplication 3 x 1 (top right model of calculation policy)
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- Abstract: Short multiplication 3 x 1 & 1 piece of regrouping (bottom right model of calculation policy)
- Abstract: Short multiplication 3 x 1 & 2 pieces of regrouping (bottom right model of calculation policy)
- Abstract: Short multiplication 3 x 1 mixed practice of lessons 11 to 13
- PS Lesson: short multiplication (multi-step)
- Concrete & pictorial from calculation policy
- Abstract: Division 3 by 1 (no regroup or remainder) from calculation policy
- Abstract: Division 3 by 1 (remainder but no regrouping within) from calculation policy
- Abstract: Division 3 by 1 (remainder and regrouping within) from calculation policy
- Abstract: Division 3 by 1 mixed from calculation policy
- PS Lesson: division (rules and patterns)
- Assessment, Pause & Stretch
- PS Skills Lesson: working collaboratively

- Monday: arithmetic paper
- Tuesday: reasoning paper
- Wednesday: fluency checks
- Thursday: unpick arithmetic paper
- Friday: unpick reasoning paper

- Interpret Bar Charts
- Construct Bar Charts
- Interpret Line Charts
- Construct Line Charts
- PS Lesson: Statistics (working backwards)
- Assessment
- Pause & Stretch
- PS Skills Lesson: finding starting points



**Federation of Golden Flatts and Lynnfield Primary Schools**  
**Maths Medium-Term Plan: 3-4 (Year B)**  
 Summer Term



Fractions	Assessment	Time
7 weeks	1 week	3 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Wholes, equal parts and unequal parts
- Match fractions to division
- Match fractions to fraction notation
- Order unit fractions by size of denominator
- Repeated addition of unit fractions to form a non-unit fraction
- Repeated addition of unit fractions to form a whole
- Non-unit fractions
- Compare and order non-unit fractions with same denominator
- Compare and order non-unit fractions with same numerator
- Practice Lesson: fractional sense <1
- PS Lesson: fractional sense <1 (visual)
- Understand mixed numbers
- Understand improper fractions
- Mixed into improper
- improper into mixed
- Compare and order mixed numbers using fractional sense: same whole and unit fraction
- Compare and order mixed when wholes are different
- Compare and order mixed with same wholes and non-unit
- PS Lesson: fractional sense >1 (visual)
- Represent unit fractions of amounts as bar models
- Represent unit fractions of amounts as division equations
- Practice Lesson: fractions of amounts (unit)
- PS Lesson: fractions of amounts (real-life word / multi-step)
- Add fractions with same denominator (not making whole)
- Add fractions with same denominator (making whole)
- Add on fractions using a numberlines
- Add involving mixed numbers (2 lessons)
- Subtract fractions from fractions
- Subtract fractions from whole by converting whole to a fraction
- Subtract involving mixed numbers (2 lessons)
- Practice Lesson: add and subtract fractions
- PS Lesson: add and subtract fractions (real-life word / multi-step)
- Assessment
- Pause & Stretch
- PS Skills Lesson: visualising

- Monday: arithmetic paper
- Tuesday: reasoning paper
- Wednesday: fluency checks
- Thursday: unpick arithmetic paper
- Friday: unpick reasoning paper

- Tell the time on an analogue clock
- Tell the time on an analogue clock using Roman Numerals
- Read the time on digital clocks
- 12 hour 24 hours conversion
- 12 hour 24 hours conversion
- Convert hours into minutes (use ratio tables)
- Convert from minutes to seconds (use ratio tables)
- Convert between days and weeks (use ratio tables)
- PS Lesson: units of time conversion (working backwards)
- Assessment
- Pause & Stretch
- PS Skills Lesson: conjecturing and visualising