Glodwick Infant and Nursery School - Long Term Planning Maths Year 2

Autumn 1	Autumn 2	
Substantive Knowledge	**Substantive Knowledge**	
Can I use place value?	Can I calculate addition and subtraction?	Geometry Can I recognise, name and describe shapes?
Disciplinary Knowledge – Small steps. Step 1 Numbers to 20 Step 2 Count objects to 100 by making 10s Step 3 Recognise tens and ones Step 4 Use a place value chart Step 5 Partition numbers to 100 Step 6 Write numbers to 100 in words Step 7 Flexibly partition numbers to 100 Step 8 Write numbers to 100 in expanded form Step 9 10s on the number line to 100 Step 10 10s and 1s on the number line to 100 Step 11 Estimate numbers on a number line Step 12 Compare objects Step 13 Compare numbers Step 14 Order objects and numbers Step 15 Count in 2s, 5s and 10s Step 16 Count in 3s	**Disciplinary Knowledge – Small steps.** Step 1 Bonds to 10 Step 2 Fact families - addition and subtraction bonds within 20 Step 3 Related facts Step 4 Bonds to 100 (tens) Step 5 Add and subtract 1s Step 6 Add by making 10 Step 7 Add three 1-digit numbers Step 8 Add to the next 10 Step 9 Add across a 10 Step 10 Subtract across 10 Step 11 Subtract from a 10 Step 12 Subtract a 1-digit number from a 2-digit number (across a 10) Step 13 10 more, 10 less Step 14 Add and subtract 10s Step 15 Add two 2-digit numbers (not across a 10) Step 16 Add two 2-digit numbers (across a 10) Step 17 Subtract two 2-digit numbers (not across a 10) Step 18 Subtract two 2-digit numbers (across a 10) Step 19 Mixed addition and subtraction Step 20 Compare number sentences Step 21 Missing number problems	**Disciplinary Knowledge – Small steps.** Step 1 Recognise 2-D and 3-D shapes Step 2 Count sides on 2-D shapes Step 3 Count vertices on 2-D shapes Step 4 Draw 2-D shapes Step 5 Lines of symmetry on shapes Step 6 Use lines of symmetry to complete shapes Step 7 Sort 2-D shapes Step 8 Count faces on 3-D shapes

Spring 1 Substantive Knowledge		Spring 2 Substantive Knowledge	
Can I use money ?	Can I calculate multiplication and division?	Can I measure ? Length and height	Can I measure ? Mass, capacity and temperature.
Disciplinary Knowledge – Small steps. Step 1 Count money – pence Step 2 Count money – pounds (notes and coins) Step 3 Count money – pounds and pence Step 4 Choose notes and coins Step 5 Make the same amount Step 6 Compare amounts of money Step 7 Calculate with money Step 8 Make a pound Step 9 Find change Step 10 Two-step problems	Disciplinary Knowledge – Small steps. Step 1 Recognise equal groups Step 2 Make equal groups Step 3 Add equal groups Step 4 Introduce the multiplication symbol Step 5 Multiplication sentences Step 6 Use arrays Step 7 Make equal groups – grouping Step 8 Make equal groups – sharing Step 9 The 2 times-table Step 10 Divide by 2 Step 11 Doubling and halving Step 12 Odd and even numbers Step 13 The 10 times-table Step 14 Divide by 10 Step 15 The 5 times-table Step 16 Divide by 5 Step 17 The 5 and 10 times-tables	Disciplinary Knowledge – Small steps. Step 1 Measure in centimetres Step 2 Measure in metres Step 3 Compare lengths and heights Step 4 Order lengths and heights Step 5 Four operations with lengths and heights	Disciplinary Knowledge – Small steps. Step 1 Compare mass Step 2 Measure in grams Step 3 Measure in kilograms Step 4 Four operations with mass Step 5 Compare volume and capacity Step 6 Measure in millilitres Step 7 Measure in litres Step 8 Four operations with volume and capacity Step 9 Temperature

Summer 1 Substantive Knowledge			Summer 2 Substantive Knowledge		
Can I recognise and find fractions?		Time	Statistics	Position and Direction	
Disciplinary Knowledge – Small steps. Step 1 – Introduction to parts and whole. Step 2 – Equal and unequal parts Step 3 – Recognise a half Step 4 – Rind a half Step 5 – Recognise a quarter Step 6 - Find a quarter Step 7 -Recognise a third Step 8 – Find a third Step 9 – Find the whole Step 10 -Unit fractions. Step 11-Non unit fractions Step 12- Recognise the equivalence of a half and two-quarters Step 13 -Recognise three-quarters Step 14- Find three-quarters Step 15 - Count in fractions up to a whole		Disciplinary Knowledge – Small steps. Step 1-O'clock and half past Step 2 - Quarter past and quarter to Step 3- Tell the time past the hour Step 4 - Tell the time to the hour Step 5 - Tell the time to 5 minutes Step 6 - Minutes in an hour Step 7- Hours in a day	Disciplinary Knowledge – Small steps. Step 1 - Make tally charts Step 2 - 2 Tables Step 3 - Block diagrams Step 4 - Draw pictograms (1–1) Step 5 - Interpret pictograms (1–1) Step 6 - Draw pictograms (2, 5 and 10) Step 7 - 7 Interpret pictograms (2, 5 and 10)	Disciplinary Knowledge – Small steps. Step 1 - Language of position Step 2 - Describe movement Step 3 - Describe turns Step 4 - Describe movement and turns Step 5 - Shape patterns with turns	