Portsdown Primary Maths Calculation Policy Appendix – Core models and images



Year R	Year 1	Year 2
5 cherry model	As Year R plus	As Year 1 plus
	Problem solving sentence stems:	Problem solving sentence stems:
unitary number	First	First
line	Then used alongside bar models	Then used alongside bar models
+3 0 1 2 3 4 5 6 7 8 2+3=5	Now	Next (if 2 step problem only)
5 and 10s frame and double sided counters	number lines in 2s, 5s and 10s(non-	Now
	unitary)	For every there are
	Counting in 2s number line 0 2 4 6 8 10 12 14 16 18 20	Example:
6 bar model	10s frames and double sided counters	For every 1 hour there are 60 minutes
5 1	100 squares	
Hungarian dice patterns Numberblocks	arrays	
		Link time to fractions

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0.07 0.08 0.09

0.04

0.02

0.01

0.03

0.05 0.06

Year 4 Year 3 As KS1 plus... As Year 3 plus... Problem solving sentence stems: **Rounding -> Identify the gate keepers** First... Then... used alongside bar models and OUUU3450008990 (if 2 step problem only) Next... Now... Rounding on a number line with gate keepers identified: For every... there are... Example: es 3.4 For every £1 there are 100 pence 3.0 So £4 is 400 pence Double number lines: for FDP or measures! Equivalent fractions or fractions of amounts using bar models: cm 2 part part 1 1 4 4 mm = 10 ? 30 whole 2 8 1.0 oual NL Change number of 10 STA equal parts based on fraction when finding equivalence! Gattegno or G-chart for x and ÷ 10 and 100 800 900 500 600 700 400 100 200 300 90 80 70 60 20 30 40 50 10 Example for fifths 8 7 9 6 5 3 2 0.8 0.9 0.6 0.7 0.4 0.5 0.3 0.1 0.2

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