LEARNING AND FLOURISHING TOGETHER | PROUD TO BE PART OF PDET

Calculation Policy

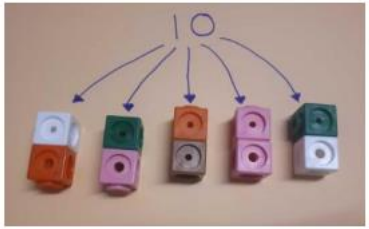
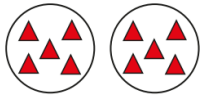
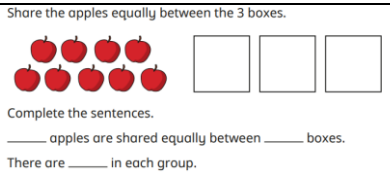
Division

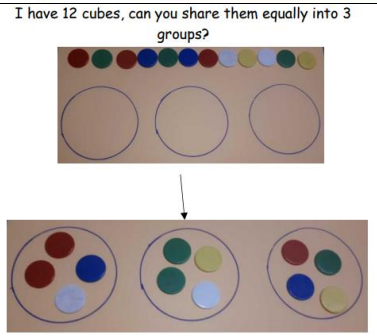
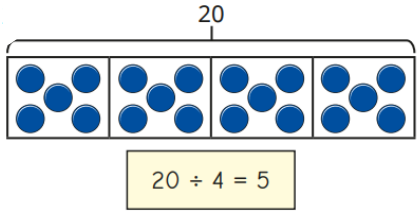
January 2024

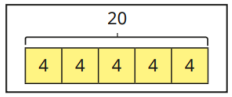
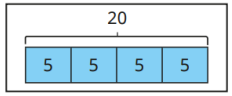
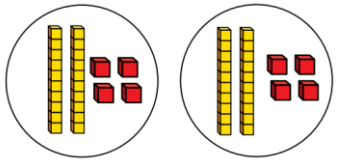
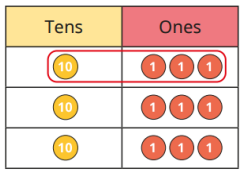
LEARNING AND FLOURISHING TOGETHER | PROUD TO BE PART OF PDET

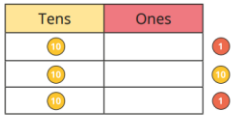
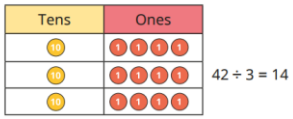
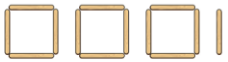
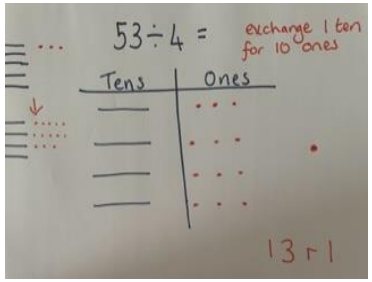
Addition:

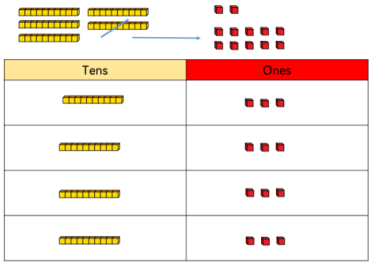
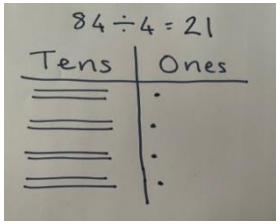
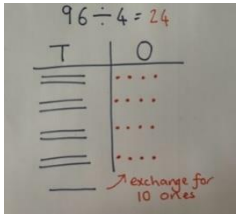
EYFS:			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide	**Manipulatives & scaffolds:**	
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**
Explore sharing	March 2024		
Sharing			
Explore grouping			
Grouping			
Even and odd sharing			
Y1			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divided by	**Manipulatives & scaffolds:**	Cubes Counters

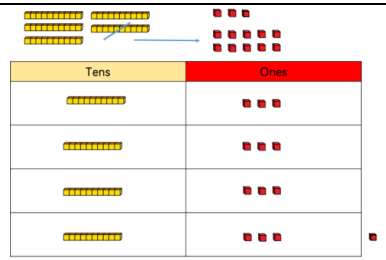
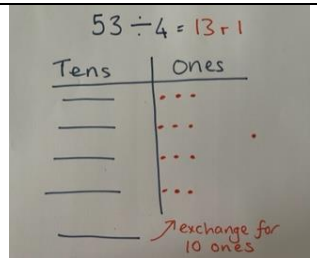
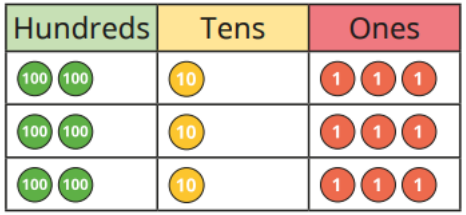
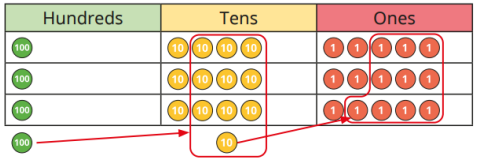
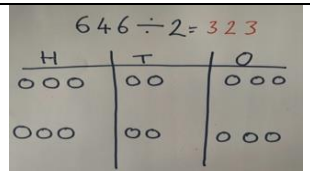
	Left over		
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**
Make equal groups – grouping		 There are _____ altogether. There are _____ equal groups of _____	There are _____ altogether. There are _____ equal groups of _____
Make equal groups – sharing	 	 Share the apples equally between the 3 boxes. Complete the sentences. _____ apples are shared equally between _____ boxes. There are _____ in each group.	__ are shared equally into __ groups. There are __ in each group.
Y2			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divided by Left over ÷	**Manipulatives & scaffolds:**	Counters Number line Bar models Part whole models
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**

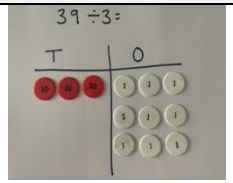
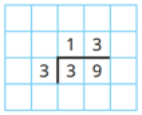
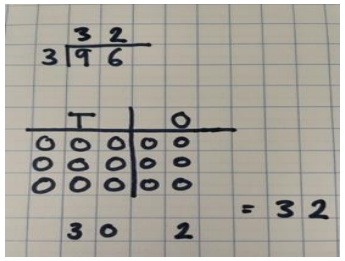
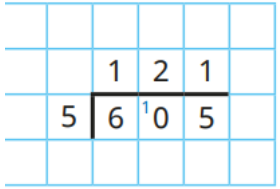
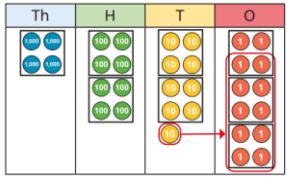
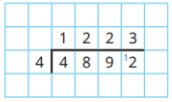
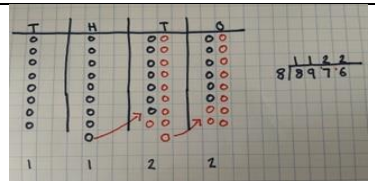
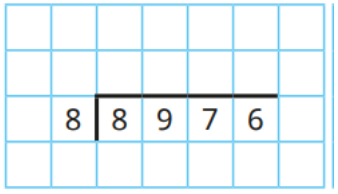
Make equal groups – grouping	 	Bar model	15 ÷ 5 =
Make equal groups – sharing			__ ÷ __ = __
Y3			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divided by Left over ÷ Remainders 2-digit number Partitioning Flexible partitioning	**Manipulatives & scaffolds:**	Counters Lolly sticks Bar models Part whole models Place value counters Place value charts

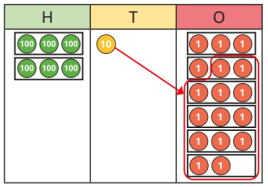
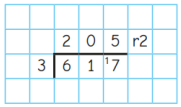
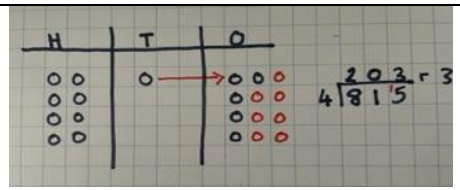
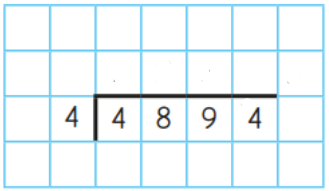
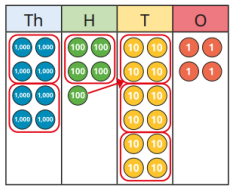
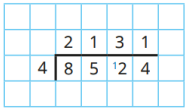
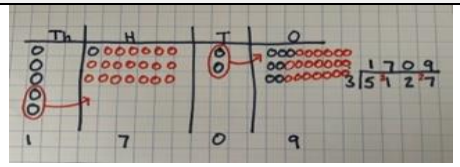
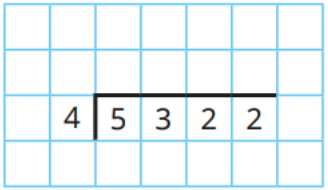
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**
Sharing and grouping	Here are 14 counters.  ▸ Share the counters equally into 2 groups. Complete the sentences. There are _____ counters altogether. There are _____ groups. There are _____ counters in each group. 14 ÷ _____ = _____	20 pencils are shared equally between 5 people.  20 pencils are grouped into packs of 5  	27 ÷ 3 =
Divide a 2-digit number by a 1-digit number - no exchange	**48 ÷ 2 = 24**   39 ÷ 3 = 13	Place value chart	48 ÷ 4 =

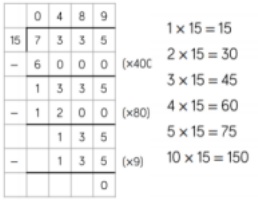
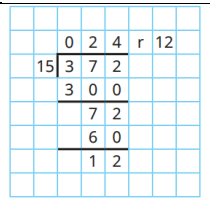
Divide a 2-digit number by a 1-digit number - flexible partitioning	Ron uses place value counters to work out 42 ÷ 3 First, he shares the tens into 3 equal groups. He has 1 ten and 2 ones left over.  Ron exchanges the remaining ten for 10 ones. Then he shares the ones into 3 equal groups.  42 ÷ 3 = 14	Place value chart	96 ÷ 6 =
Divide a 2-digit number by a 1-digit number - with remainders	Esther has 13 lolly sticks. She uses them to make squares.  Complete the sentences. There are _____ lolly sticks. There are _____ groups of 4 There is _____ lolly stick remaining. 13 ÷ 4 = _____ remainder _____ Esther can make _____ squares.	53 ÷ 4 =  	38 ÷ 3 = 12 r 2
Y4			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divided by Left over	**Manipulatives & scaffolds:**	Part whole models Place value counters Place value charts

	÷ Remainders 2-digit number Partitioning Flexible partitioning		
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**
Divide a 2-digit number by a 1-digit number (no remainders)	52 ÷ 4 = 13   	84 ÷ 4 =  96 ÷ 4 =  	78 ÷ 6 =
Divide a 2-digit number by a 1-digit number	53 ÷ 4 = 13 r1	53 ÷ 4 = 13 r1	53 ÷ 4 =

(with remainders)	 		
Divide a 3-digit number by a 1-digit number	639 ÷ 3 =  435 ÷ 3 = 		428 ÷ 2 =
Y5			
Vocabulary:	Odd Even	**Manipulatives & scaffolds:**	Place value counters

	Halve Share Share equally Equal groups of Divide Divided by Left over ÷ Remainders Partitioning Flexible partitioning 2/3/4-digit number Short division		Place value charts 'Bus stop'
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**
Short division	  We are dividing by 3. There is 1 group of 3 tens. There are 3 groups of 3 ones. 39 ÷ 3 = 10 and 3 = 13	96 ÷ 3 = 	
Divide a 4-digit number by a 1-digit number	 		

Divide with remainders	 		
Y6			
Vocabulary: Odd Even Halve Share Share equally Equal groups of Divide Divided by Left over ÷ Remainders 2/3/4-digit number Partitioning Flexible partitioning Short division Factors Long division		**Manipulatives & scaffolds:**	Place value counters Place value charts 'Bus stop'
Small step:	**Concrete:**	**Pictorial:**	**Abstract:**
Short division	 		

Division using factors			540 ÷ 20
Long division	When children begin to divide larger numbers, written methods become more efficient; concrete and pictorial methods are less effective		7,335 ÷ 15 = 489 
Long division with remainders			 **Multiples of 15:** 15 × 1 = 15 15 × 2 = 30 15 × 3 = 45 15 × 4 = 60