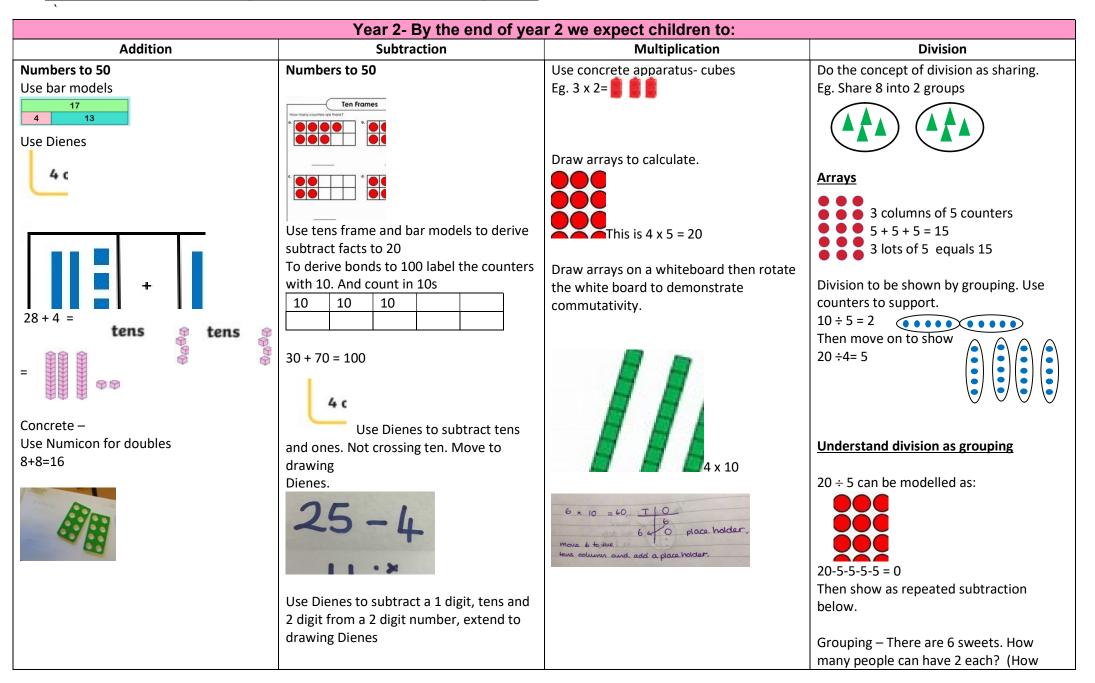
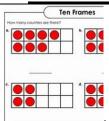
Mount Pleasant Primary School Calculation Policy 2020



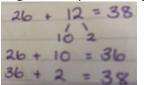
Mount Pleasant Primary School Calculation Policy 2020



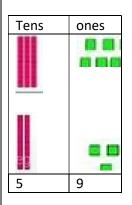
Use the 10s frame.



Begin to use partitioning:



Then use Dienes in a column frame.



Teach subtraction by partitioning:

16 - 2 = 14

Begin to demonstrate the concept of subtracting in columns by placing Dienes in a column subtraction frame.

Tens	Ones	

Extend to drawing the Dienes and crossing out, then replace pictures with numbers.

Use bar models to create fact families and recognise inverse.

20	
15	5

15 + 5 = 20

5+15 =20

20-5=15

20-15=5

Find a small difference by counting on using a numbered number line.





5+5+5+5=20 4 x 5=20

Start with tens and multiply by a single digit

(Grid Method)

TU x U

Х	30	5
2	60	10

Missing numbers

□ x 2 = 14

14 = 2 x □

 \square x ∇ = 14

14 = \square x ∇

<u>Problem solving</u> - (Applying the grid method)

How many stamps would you have if you bought four books of stamps, with each having 10 stamps in it?

Partition-

23 x 3= 20 x 3 3 x 3 many 2's make 6?)

÷ = signs and missing numbers

16 ÷ 2 = □

 \square = 16 ÷ 2

16 ÷ □ = 8

8 = 16 ÷ □

Using known number facts

 $8 \div 2 = 4$ $8 \div 4 = 2$ $80 \div 2 = 40$ $80 \div 4 = 20$ Mount Pleasant Primary School Calculation Policy 2020

Mount Pleasant Primary S
Extend to drawing Dienes in the column
frame followed by:
TO
3 6
<u>+2 3</u>
9
<u>+5 0</u>
59
Begin to work beyond 100.

12 + 🔲 = 18			
18			
12		1	

Create a bar model then use the inverse to calculate.

Number Line (partially numbered)

number lines to include- thermometer, weighing scales, metre sticks

Compensation method- 35 + 9=

35 + 9 = 44

Adjusting (may not be shown on a number line)
Add 9 or 11 by adding 10 and adjusting by 1

(teaching- bar model, arrows cards and Dienes equipment

<u>Expanded column subtraction</u> - (not exchanging tens)

Explain that we are putting our tens and ones back together.