Year 3 Maths Overview of objectives from white rose:

Division and Multiplication:

Multiplication - equal parts

Multiplication using the symbol

Using arrays

2 times-table

5 times table

Make equal groups - sharing

Make equal groups - grouping

Divide by 2

Divide by 5

Divide by 10

Multiply by 3

Divide by 3

The 3 times table

Multiply by 4

Divide by 4

The 4 times table

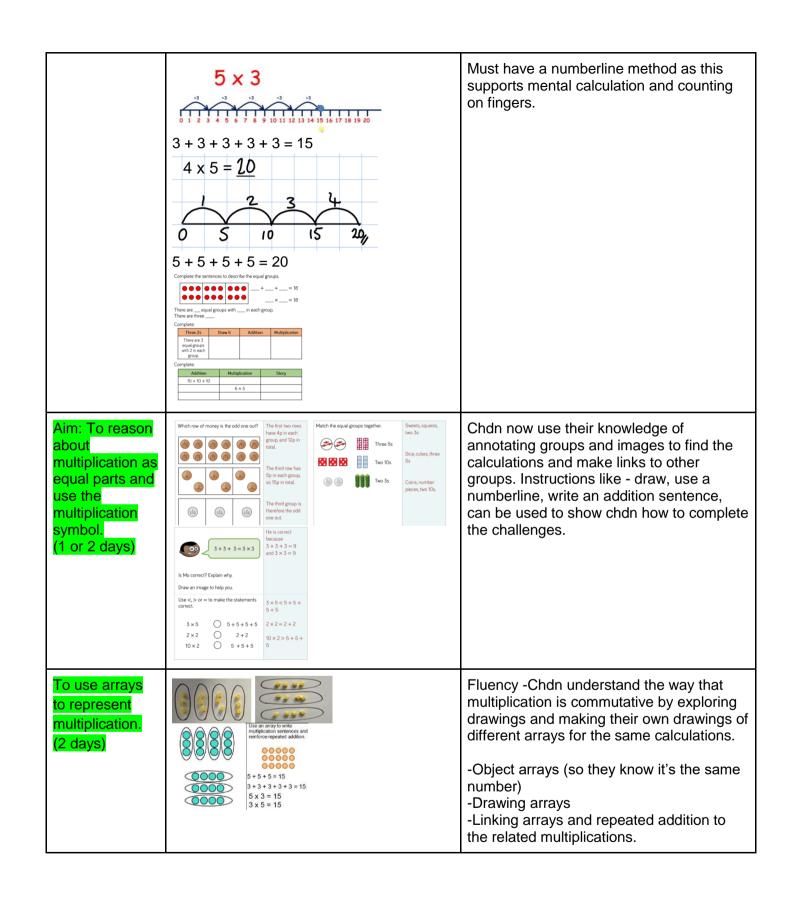
Multiply by 8

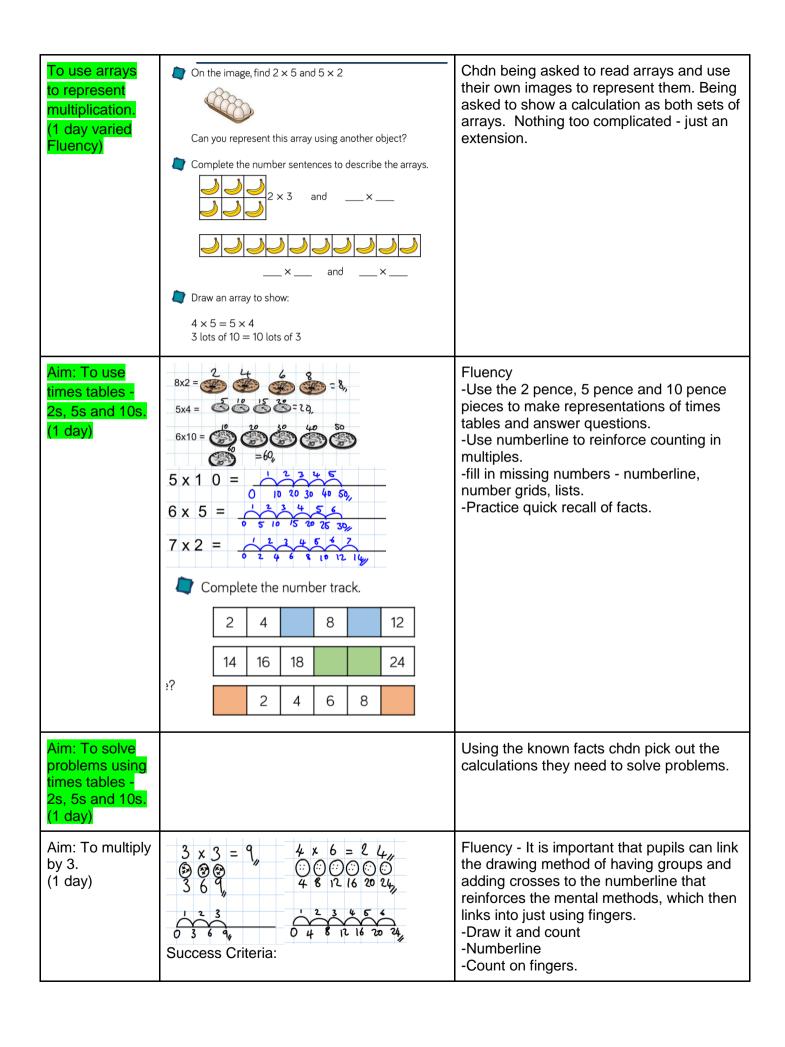
Divide by 8

The 8 times table

Objectives organised with mental strategies incorporated:

Aims:	Strategies, images and models:	
Aim: To understand multiplication as equal parts and use the multiplication symbol. (1 or 2 days)	Pupils can make and draw equal groups and link them to multiplications. Lyonpa of h=8 2 x 4 = 8	Chdn get used to images with multiplications to show they understand grouping as multiplication.
Aim: To understand that repeated addition is multiplication. (2 or 3 days)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-Pictorial linked to both sentences -Numberline Given -Numberline Own -Varied Fluency Pictorial and Numberline -Reasoning and Problem solving. Chdn become fluent in writing and matching repeated addition and multiplication sentences.





Aim: To multiply by 4. (1 day) Aim: To multiply by 8.	1.Draw the number line; 2.Decide how many jumps (choose the right number!); 3.Count in multiples. *Note chdn sometimes choose to count in the wrong number so model deciding which to count the jumps in. "I'll choose 6 jumps because I'm better at counting in 4s." As above As Above	EXT can use work already completed (Can you show an array for this one? Can you write the repeated addition for this etc. Basically varied fluency.) As above As Above
(1 day) Aim: To multiply by 3, 4 & 8. (1 day)	As Above	Mixed questions so that chdn go between multiplication tables.
Aim: To divide using drawings. (1 day)	20 shared between 5 = 4,, 4 4 4 4 4 ************************	Sharing and grouping are often taught as different and they are but chdn find this confusing. Sharing is essentially drawing a bar model. Grouping is generally a numberline. Both have their merits but in the long run sharing is very limited so once the chdn have had a recap, we focus more on using the numberline.
Aim: To divide using a numberline. (1 day)	20 shared between 5 = 4// 0 5 10 15 20	
Aim: To divide by sharing and grouping. (2 days)	20 shared between 5 = 4,, 4 4 4 4 4 	It is helpful to put both images alongside each other and ask them to do both at the same time so they can see how reliable the numberline is once you can count in multiples.

