Let's find the total by grouping: Maths : Year 1 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To count in twos, fives and tens on a number line.	Children revisit their understanding of skip counting in jumps two, fives and ten along a number line. They are challenged to think about sequences of numbers which don't always start from 0 as well as sequences increasing and decreasing by two, five or ten. There is an opportunity to extend their understanding of counting in twos, fives and tens by using their reasoning skills to discuss if a number will appear in a proposed sequence.	• Can children count in groups of two, five and ten? • Are children able to count in steps of two, five and ten from 0 on a number line? • Are children able to count in steps of two, five and ten from a number other than 0 on a number line?	• Slides • Worksheet 1A/1B/1C • Photo Sheet 1A • Number Lines 1A (FSD? activity only) • Hundred Square 1A (FSD? activity only) • Challenge Cards 1A/1B (FSD? activity only)
Lesson 2	To double numbers using concrete objects and grouping.	Children resist the concept of doubling and extend their understanding of doubling as repeated addition, exploring doubling as a multiplication. Children use spots on butterfly wings to help them see two groups of the same number and write multiplications sentences based on what they see.	• Can children double a number using concrete resources? • Are children able to double a number using pictorial representations? • Can children identify a multiplication calculation from a doubling problem?	• Slides • Worksheet 2A • Doubling Cards 2A • Counters/cubes/Numicon • Butterfly Sheet 2A • Challenge Card 2A • Photo Sheet 2A • Doubling Cards 2B (FSD? activity only) • Paint (FSD? activity only) • Paintbrushes/cotton buds (FSD? activity only)
Lesson 3	To make links between repeated addition and multiplication.	Children revisit repeated addition as a concept for multiplication and being linking it to a multiplication calculation using a pictorial representation. Children will practise recognising groups of numbers and writing a multiplication and repeated addition based on it.	• Can children identify a repeated addition calculation from a pictorial representation? • Are children able to identify a multiplication calculation form a pictorial representation? • Are children able to make a link between repeated addition and multiplication?	• Slides • Matching Cards 3A • Worksheet 3A/3B • Photo Sheet 3A • Game Board 3A (FSD? activity only) • Game Cards 3A (FSD? activity only) • Counter Cards 3A (FSD? activity only)
Lesson 4	To investigate multiplication using arrays.	The children will be introduced to array and how they can be used to represent multiplications in different ways. They will experiment with the different ways of grouping wither the rows or the columns to help them see the different groups. Children are challenged to build or draw different arrays for multiplication problems.	• Can children draw an array from a multiplication? • Can children create a multiplication calculation from an array? • Can children solve multiplication problems using arrays?	• Slides • Challenge Cards 4A • Array Card 4A • Counters/multilink cubes • Worksheet 4A/4B • Photo sheet 4A • Building Card 4A (FSD? activity only) • Yellow squares (FSD? activity only)
Lesson 5	To solve multiplication problems using concrete or pictorial resources.	In this final lesson children are challenged to use their understanding of arrays to help them solve multiplication problems for some shop assistants who are stacking their shelves in arrays. The children will be given a set of shelves and asked to find the total amount of objects which will fit not he shelves, or given a set of objects and asked to determine if they will fit on a given set of shelves arranged in an array.	• Can children create an array from a given total number? • Can children use concrete resources to represent a multiplication • Are children able to solve simple one-step multiplication problems?	• Slides • Various apparatus e.g. bead strings, multi-link cubes, coins, numicon, counters • Object Cards 5A • Challenge Cards 5A/5B • Worksheet 5A • Photo Sheet 5A • Shelf Cards 5A (FSD? activity only) • Object Cards 5B (FSD? activity only)

NB: 'FSD? activity only' refers to the alternative 'Fancy Something Different...?' activity within the lesson plan