How can we add numbers?: Maths : Year 2 : Autumn Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to add two and three groups of objects together.	Children will use pictorial representations and concrete objects to add two groups of objects together. They will add three groups of objects together using the same representations. Children will begin to learn that starting with the larger group is helpful when adding more then one number together.	• Can children add two groups of objects together? • Can children add three groups of objects together? • Can children use different strategies to add groups of objects?	• Slides • What's Missing Cards • Picture Cards • Addition Wheels 1A/1B • Rolling Game A/B (for FSD? activity only) • Dice (for FSD? activity only) • Photo Sheet
Lesson 2	To use number lines to add two and three numbers together.	Children will continue to add two and three numbers together, using number lines instead of groups of objects. They will learn how to make jumps to the right along the number line to add numbers together. Children will begin to look at three numbers and choose which one to start with before adding the other two.	• Can children use number lines to add numbers? • Do children know how to add three numbers together using number lines? • Can children use different strategies to add numbers together?	• Slides • Perfect Partners Cards • Number Sentence Cards • Number Line Solution Cards • Number Line Cards • Worksheet 2A • Four to Win Game (for FSD? activity only) • Green and Red Game Cards (for FSD? activity only) • Photo Sheet
Lesson 3	To add ten and twenty to a two-digit number using bead strings.	Children will become familiar with bead strings and how to use them to show groups of ten. They will use bead stings to add ten to a starting number and will be challenged to use the same technique to add twenty to a number. Children will begin to see that the tens column changes when adding ten to a number.	• Can children count in tens? • Can children use bead strings to add ten to a number? • Do children understand that the tens column changes when adding ten?	• Slides • Match Me Cards • Bead Strings • Question Cards • Bead String Match Cards • Worksheet 3A • Game Board, counters and dice (for FSD? activity only) • Photo Sheet
Lesson 4	To use Hundred Squares to add multiples of ten to two-digit numbers.	Children will use a hundred square to add ten to two-digit numbers. They will learn that when you add ten to a number, the answer is one square below that number, as each row has ten numbers in it. They will use this pattern to add other multiples of ten to two-digit numbers.	• Can children use a Hundred Square to add ten? • Can children see patterns on a Hundred Square? • Do children understand that the tens column changes when adding a multiple of ten to a number?	• Slides • Hundred Squares • Question Cards 4A/4B/4C • Counters • Number Puzzles A/B (for FSD? activity only) • Photo sheet
Lesson 5	To be able to add ten to a two-digit number mentally.	Children will consolidate their addition skills in this lesson and will practise answering questions mentally. They will continue to add ten and other multiples of ten to two-digit numbers mentally using speed and number fluency. This lesson allows children to consolidate their knowledge of the tens column changing and the ones column staying the same when adding ten to a number.	• Can children add ten to a two-digit number mentally? • Can children add other multiples of ten to a two-digit number mentally? • Do children understand the tens column changes when you add a multiple of ten?	• Slides • Photo Sheet • Stopwatch • Memory Game Cards 5A/5B/5C • Colour Me Hundred Squares (for FSD? activity only)

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