Using Addition and Subtraction 2: Maths : Year 4 : Summer Term

PlanBee

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To use the inverse operation to check calculations	In this first lesson, children will recap on what 'inverse' means, and how they can use it to check answers to addition and subtraction problems. They will understand how to identify if an answer is correct or incorrect based on the answer the inverse gives. Children will also learn the correct terms for the numbers that they are adding and subtracting in each number sentence.	• Can children explain what 'inverse' means? • Can children use their knowledge of addition to check answers to subtraction questions? • Can children use their knowledge of subtraction to check answers to addition questions?	• Slides • Teach the Teacher! Sheet A/B/C • Just Checking! Game Cards (FSD? activity only) • Just Checking! Game Instructions (FSD? activity only) • Speech Bubbles Sheet (FSD? activity only)
Lesson 2	To understand and use the language of addition and subtraction	Children will explore the language of addition and subtraction by identifying the words or phrases in a problem that indicate which operation is needed. In their independent activities, children will work out competitors' scores by solving one- and two-step problems. Alternatively, children will write their own word problems using the language of addition and subtraction for others to solve.	• Can children identify the language of addition in word problems? • Can children identify the language of subtraction in word problems? • Can children solve mixed word problems involving a range of language relating to addition and subtraction?	• Slides • Worksheet 2A/2B/2C • Language of Addition and Subtraction Cards (FSD? activity only) • Blank Question Cards (FSD? activity only)
Lesson 3	To be able to solve two-step word problems involving addition and subtraction	Children will apply their knowledge of the language of addition and subtraction to solve two-step word problems. They will use their reasoning skills to discuss which information is important, what calculations are needed, and what order they need to be done in. Children will answer questions to compete in an 'obstacle course', or in the alternative activity, they will use their problem-solving skills to complete a number search puzzle.	• Can children identify the information in a word problem that they need in order to solve it? • Can children explain their reasoning and justify their choices? • Can children use an appropriate method to calculate two-step questions?	• Slides • Worksheet 3A/3B/3C • Green/Blue/Yellow Obstacle Course Questions • Number Search Puzzle A/B
Lesson 4	To use addition and subtraction skills to solve puzzles	In this lesson, children will use their knowledge of addition and subtraction to solve puzzles using the trial and improvement method. They will develop their reasoning skills by explaining their thought processes and the steps they need to take in order to narrow down the possible answers and find the solution.	• Do children understand how to use the trial and improvement method? • Can children use reasoning to decide how and where to begin a puzzle? • Can children persevere until they find a solution?	• Slides • Event Winners Sheet • Puzzle Cards 4A/4B • Create a Puzzle Instructions A/B (FSD? activity only) • Create a Puzzle Question Cards A/B (FSD? activity only)
Lesson 5	To develop and use reasoning skills	In this final lesson, children will continue to develop their reasoning skills by solving missing number problems. They will identify various missing digits in both addition and subtraction column methods, and be encouraged to explain their thinking. In their independent activities, children will solve missing number problems, and identify whether or not they can be certain about their answers. Alternatively, children will generate their own column additions and subtractions based on given 'rules'.	• Can children identify missing digits in a column addition or subtraction? • Can children identify calculations where we cannot be certain what the missing digits are? • Can children explain their reasoning clearly?	• Slides • Worksheet 5A/5B/5C • Reasoning Sentence Starter Cards • The Generation Game A/B/C (FSD? activity only)

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