

Subtraction Methods: Maths : Year 5 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to solve missing number subtraction problems.	Children will recap their understanding of the formal written method for subtraction and the steps to carry out this method for subtraction. They use their understanding to identify mistakes in existing working as well as missing numbers in increasingly difficult calculations.	<ul style="list-style-type: none"> • Can children explain the formal written method of subtraction? • Can children use the formal written method of subtraction? • Are children able to solve missing digit problems for subtraction? 	<ul style="list-style-type: none"> • Slides • Worksheets 1A/1B/1C • Game Sheet (FSD? activity only) • Game Instructions (FSD? activity only)
Lesson 2	To choose suitable mental and written methods for subtraction.	The children have the chance to share and explore several different methods of calculating a subtraction problem by looking at mental and written methods including: compensation, partitioning, formal written method and number line. They have the opportunity to test out each method and make decisions on the suitability of a written or mental method for different problems and how to spot if a problem suits a particular method.	<ul style="list-style-type: none"> • Can children use mental or formal written methods to solve subtraction problems? • Can children decide which methods are more suitable for a given problem? • Can children use reasoning to explain which method is more suited to a problem? 	<ul style="list-style-type: none"> • Slides • Worksheets 2A/2B/2C • Challenge Cards (FSD? activity only) • Large paper (sugar paper) (FSD? activity only) • Felt tips (FSD? activity only)
Lesson 3	To use the inverse operation to check an answer.	The children will look at the different ways to check their answers, focusing on using the inverse operation. The children become the teacher and mark the answers of another individual's work as well as using their understanding to solve 'I'm thinking of a number...' puzzles.	<ul style="list-style-type: none"> • Can children identify the inverse operation? • Can children write the inverse calculation? • Can children check answers and correct mistakes? 	<ul style="list-style-type: none"> • Slides • Worksheets 3A/3B/3C • Domino Cards 3A/3B/3C
Lesson 4	To solve problems involving multiple subtrahends.	Following on from the previous lessons, the children explore the different methods for subtracting multiple values from a number. They investigate the efficiency for different methods and use what they find to settle on a preferred method for their independent work.	<ul style="list-style-type: none"> • Can children use reasoning to explain their method and reasons why they chose it? • Are children able to solve problems involving more than one subtrahend? • Are children able to solve multi-step problems involving subtraction? 	<ul style="list-style-type: none"> • Slides • Worksheets 4A/4B/4C • Subtraction Cards (FSD? activity only) • Number Cards (FSD? activity only)
Lesson 5	To solve addition and subtraction word problems using the bar model representation.	This lesson allows the children to expand their use and understanding of bar models to support them when solving word problems. The children use the bar models to show understanding of what the problem is asking them to do, as well as using the models to show their thought processes when working through the problem.	<ul style="list-style-type: none"> • Can children represent a word problem with a bar model? • Can children use bar model representations to choose the appropriate function and method to solve the problem? • Can children solve multi-step word problems based on addition and subtraction? 	<ul style="list-style-type: none"> • Slides • Worksheets 5A/5B/5C • Number Chase Cards (FSD? activity only) • Number Chase Answer Sheet (FSD? activity only)