Using Addition and Subtraction 1: Maths : Year 4 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recap on how to use the formal method for addition	In this first lesson, children will recap on their knowledge and understanding of the formal column method for addition. They will solve number sentences which involve carrying from one column to another. Children will also estimate their answers prior to working them out by rounding the addends to the nearest ten or hundred, and will understand how this is helpful for checking results.	• Can children use their rounding skills to estimate and check an answer? • Can children use the formal method for addition to solve HTO + HTO and ThHTO + ThHTO? • Can children use the formal method for addition to solve HTO + HTO and ThHTO + ThHTO including carrying?	• Slides • Results Cards A/B/C • Worksheet 1A/1B/1C • Who Scored What? Sheets A/B/C (FSD? activity only)
Lesson 2	To use the formal method for addition, including carrying more than once	Children solve additions using the formal column method where carrying is needed more than once. They will understand that the digits they are carrying represent either tens or hundreds. Children will then progress to adding three 3-digit numbers together. In their independent activities, they will apply this knowledge to work out who has won the gold, silver and bronze medals for different sports day events.	• Can children use the formal method for addition to solve HTO + HTO where carrying is needed more than once? • Can children add three and four HTO numbers together using the formal method? • Can children explain their methods clearly?	• Slides • Score Cards A/B/C • Gold, Silver or Bronze? Worksheet A/B/C • HiLo Game Cards (FSD? activity only) • HiLo Game Cube (FSD? activity only) • HiLo Game Instructions Cards (FSD? activity only) • HiLo Game Score Cards (FSD? activity only)
Lesson 3	To recap on how to use the formal method for subtraction	To begin, children will recap on their knowledge and understanding of the formal method for subtraction. They will estimate their answers by rounding to the nearest 100 before calculating the actual answer. Children will solve number sentences which involve one exchange from the tens or the hundreds column, and explain what happens to the numbers when an exchange is needed.	• Can children use their rounding skills to estimate and check an answer? • Can children use the formal method for subtraction to solve HTO - HTO and ThHTO - ThHTO? • Can children use the formal method for subtraction to solve HTO - HTO and ThHTO - ThHTO including exchanging?	• Slides • Worksheet 3A/3B/3C • Egg & Spoon Race Clue Cards A/B (FSD? activity only) • Egg & Spoon Race Calculation Sheet A/B (FSD? activity only)
Lesson 4	To use the formal method for subtraction, including exchanging more than once	In this lesson, will children continue to develop their understanding of the column method for subtraction. They will solve number sentences where exchanging is needed more than once, and where one or more of the digits in the larger number is zero. In their independent activities, children will sort true and false statements by finding the difference between two team's scores. Alternatively, they will create a 'personal best' score by solving questions that are levelled according to difficulty, and adding up the points they achieve from each correct answer.	• Can children identify errors in completed column methods for subtraction? • Can children use the formal method for subtraction to solve HTO - HTO and ThHTO - ThHTO including more than one exchange? • Can children explain when and why they exchange in a column subtraction?	• Slides • Team Results Cards • Worksheet 4A/4B/4C • Personal Best Challenge Sheet (FSD? activity only)
Lesson 5	To solve addition and subtraction word problems using the column method	In this final lesson, children will apply their knowledge and understanding of the formal column method for both addition and subtraction by solving a range of one- and two-step word problems. They will play a board game where they have to answer word problems to gain bronze, silver then gold medals in different events. Alternatively, children will take part in an orienteering challenge where they need to find and answer questions in the correct order!	• Can children identify the operation needed to solve a word problem? • Can children estimate an answer using rounding before solving with the formal column method? • Can children use the formal column method to solve addition and subtraction word problems?	• Slides • Quadrathlon Game Board • Question Cards A/B/C • Medals Sheet • Blank Calculations Sheet, Dice, Counters • Orienteering Answer Sheet A/B/C/D/E/F (FSD? activity only) • Orienteering Question Posters (FSD? activity only)

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