

Using Subtraction and Addition: Maths : Year 6 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To choose appropriate methods for quickly and accurately solving addition and subtraction calculations.	Children will practise to increase speed, accuracy and confidence using rounding and adjusting or equal addition to mentally solve addition and subtraction calculations with three-, four-, five- and six-digit whole numbers. They will also identify trickier calculations, such as those involving numbers with up to two decimal places, where a written method may be more appropriate.	<ul style="list-style-type: none"> Can children use a rounding and adjustment method to solve addition calculations mentally? Can children use an equal addition method to solve subtraction calculations mentally? Can children identify trickier calculations where a written method is most appropriate? 	<ul style="list-style-type: none"> Slides Worksheets 1A/1B/1C Block Race 1/2/3/Instructions (FSD...? activity only) Counters, dice and sand timers (FSD...? activity only)
Lesson 2	To develop formal methods for subtracting quickly and accurately.	Children will practise using a standard written method, and an equal addition written method, for solving subtraction calculations involving three-, four-, five- and six-digit numbers, some with up to two decimal places.	<ul style="list-style-type: none"> Can children, where appropriate, use a mental method of equal addition to solve subtraction calculations? Can children recognise when a written method for solving a calculation may be appropriate? Can children use a formal equal addition method for subtracting? 	<ul style="list-style-type: none"> Slides Worksheet 2A/2B/2C Challenge Card 2 (FSD...? activity only) Large sheets of paper (FSD...? activity only) Base 10 resources or place value cards (FSD...? activity only)
Lesson 3	To use estimating by rounding to predict, and check, answers to calculations.	Children will practise and develop skills of estimating by rounding to various degrees of accuracy, depending on the contexts of the problems and calculations given. They will also study the vocabulary used in word problems and 'real-world' situations, identifying language which suggests an estimated answer, rather than an exact calculation, may be acceptable.	<ul style="list-style-type: none"> Can children round numbers to the nearest thousand, hundred and ten? Can children estimate or check the answers to calculations by rounding? Can children round to an appropriate degree of accuracy to provide approximate answers to word problems, where appropriate? 	<ul style="list-style-type: none"> Slides Estimate or Calculate cards 3A/3B/3C Chef's Kitchen sheet (FSD...? activity only) Culinary Catalogue 3A/3B sheet (FSD...? activity only)
Lesson 4	To solve subtraction calculations resulting in negative numbers.	Children will learn an ad hoc method for finding answers to subtraction calculations resulting in negative numbers, including those with up to two decimal places. They will then practise this method, with the option (during one of the two included activities) to sequence negative numbers high to low too.	<ul style="list-style-type: none"> Can children quickly identify subtraction calculations that will result in negative numbers? Can children use an ad hoc method for subtractions resulting in negative numbers? Can children make notes, draw number lines or use resources to check their calculations? 	<ul style="list-style-type: none"> Slides Worksheet 4A/4B/4C Unifix cubes and blank number lines (optional) Bank Manager Challenge sheet (FSD...? activity only)
Lesson 5	To choose and use appropriate methods to solve a variety of addition and subtraction calculations, including multi-step problems.	Children will recap and practise the skills of rounding and adjusting, using equal addition when subtracting, estimating by rounding and working with negative numbers. They may then either play a game to consolidate their learning, or undertake a straightforward maths investigation challenge involving subtraction and addition.	<ul style="list-style-type: none"> Can children select and use a favoured strategy for solving calculations resulting in negative numbers? Can children choose and use a variety of methods for solving addition and subtraction calculations? Can children, where appropriate, use notes or formal written methods to solve calculations? 	<ul style="list-style-type: none"> Slides Work It Out! game board, instructions and cards Counters, dice and sand timers/stopwatches Challenge Cards (FSD...? activity only)