

Mental Subtraction : Maths : Year 3

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to subtract numbers mentally	Children will be introduced to mental methods of subtraction. They will subtract multiples of 1, 10 and 100 from a three-digit number. Children will generate their own subtraction number sentences to solve, or in the alternate activity, will play a subtraction game based on what they have learnt.	<ul style="list-style-type: none"> Can children mentally subtract a one-digit number from a three-digit number? Can children mentally subtract a two-digit number from a three-digit number? Can children mentally subtract a three-digit number from a three-digit number? 	<ul style="list-style-type: none"> Slides Worksheets 1A/1B/1C Subtraction Space Race Game Sheet (FSD? activity only) Question Cards A/B/C (FSD? activity only) Counters (FSD? activity only)
Lesson 2	To know and use the vocabulary of subtraction	Children begin by testing their knowledge and understanding of subtraction with some quick-fire questions. They then find out about the different vocabulary associated with subtraction, and answer a variety of word problems. Children will apply this understanding in their independent work, where they can play a subtraction-based game, or work out number facts about an alien.	<ul style="list-style-type: none"> Do children understand the vocabulary of subtraction? Can children use the vocabulary of subtraction orally? Can children solve a range of subtraction number sentences mentally? 	<ul style="list-style-type: none"> Slides Worksheet 2A/2B/2C Question Cards A/B/C Amazing Alien Sheet A/B/C (FSD? activity only) Amazing Alien Challenge Sheet (FSD? activity only)
Lesson 3	To know how to use the inverse operation to check subtraction number sentences	Children will find out what 'inverse' means, and what the inverse of subtraction is. They will learn how to use this knowledge to check their calculations. Children will check, and where necessary, correct answers to subtraction number sentences.	<ul style="list-style-type: none"> Can children solve subtraction number sentences mentally? Do children understand the term 'inverse'? Can children use the inverse operation to check answers to subtraction questions? 	<ul style="list-style-type: none"> Slides Worksheet 3A/3B/3C Coloured pencils Alien Inverse Board Game A and B (FSD? activity only) Alien Points Sheet (FSD? activity only) Dice (FSD? activity only) Counters (FSD? activity only) Wipe Boards (FSD? activity only)
Lesson 4	To use known addition and subtraction facts to solve missing number problems	Children will be reminded of their understanding of the inverse operation and how it can be used to check answers. They will then learn how to use this knowledge to find missing numbers in subtraction number sentences. In the independent activity, children will chose the correct missing numbers from a given set of answers. Alternatively, they can use their knowledge to solve subtraction puzzles.	<ul style="list-style-type: none"> Can children check an answer using the inverse? Can children recall addition and subtraction facts mentally? Can children solve missing number problems? 	<ul style="list-style-type: none"> Slides Worksheets 4A/4B/4C Alien Squares Sheet A/B (FSD? activity only) Alien Squares Challenge Sheet (FSD? activity only)
Lesson 5	To know how to use addition and subtraction facts to solve problems involving money	Children will be reminded of the written notation for amounts of money. They will learn how to reduce prices using their subtraction knowledge, and how to total amounts and then work out change from a specified amount. Children will then solve two-step and multi-step word problems involving money.	<ul style="list-style-type: none"> Can children subtract numbers mentally? Can children add amounts of money using pounds and pence? Can children use subtraction to work out how much change should be given? 	<ul style="list-style-type: none"> Slides Worksheets 5A/5B/5C Alien Jumble Sale Cards A/B/C (FSD? activity only)