Investigating Number Facts : Maths : Year 3

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To know how to add numbers using partitioning	Children will recap on their understanding of partitioning, and then use this knowledge to solve addition number sentences involving two-digit numbers. Children will be encouraged to show the steps of their working out in their independent activities.	• Do children know how to partition a number? • Do children know how to recombine numbers? • Can children use their knowledge of partitioning to solve addition number sentences?	• Slides • Worksheet 1A/B/C • Place Value Cards • Blank Number Lines Sheet • Spinner Sheet (FSD? activity only)
Lesson 2	To know how to subtract numbers using partitioning	Children will recap on how to use partitioning to help them solve addition number sentences, and then discuss how to use this method to solve subtraction number sentences. Children can work in pairs to create number sentences for each other to solve, or in the alternative activity, challenge themselves to complete the Subtraction Grid.	• Do children know how to partition a number? • Do children know how to recombine numbers? • Can children use their knowledge of partitioning to solve subtraction number sentences?	• Slides • Number Cards A/B/C • Instructions Cards • Big Number Sentence Sheet • Blank Number Lines Sheet • Subtraction Answer Sheet • Subtraction Grid A/B/C (FSD? activity only)
Lesson 3	To know how to add more than two numbers together	Children will apply what they have learnt so far about the partitioning method to help them solve number sentences that require the addition of more than two two-digit numbers. They will practise this skill by working independently, or in pairs, to solve different challenges.	• Can children recall the partitioning strategy for addition? • Can children use the partitioning strategy to add more than two numbers together? • Can children explain the partitioning strategy?	• Slides • Worksheet 3A/B/C • Number Cards Set A/B (FSD? activity only) • Challenge Cards (FSD? activity only) • Instructions Cards (FSD? activity only)
Lesson 4	To know how to solve puzzles using addition and subtraction	Children will use their addition and subtraction skills to solve number puzzles. They will learn how to reason about answers, and narrow down possible options in order to find the final answer.	• Can children recall how to use partitioning for addition and subtraction? • Do children understand how to narrow down possible answers when there are multiple options? • Can children explain their reasoning and the methods they used to solve puzzles?	• Slides • Worksheet 4A/B/C • Footprints Puzzle Sheet A/B/C (FSD? activity only)
Lesson 5	To know how to investigate statements	Children will find out what a mathematical statement is. As a class, they will learn how to investigate a statement, and decide whether it is true or false. Children then have the opportunity to investigate statements independently or in pairs, depending on the activity chosen.	• Do children understand what a mathematical statement is? • Can children use their knowledge of addition and subtraction to investigate a mathematical statement? • Can children explain their reasoning?	• Slides • Worksheet 5A/B/C • Addition Pyramid Sheet A/B (FSD? activity only) • Instructions Card (FSD? activity only)

Copyright © PlanBee Resources Ltd 2016

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