Using Multiplication and Division: Maths : Year 4 : Spring Term

PlanBee

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To know and use the eleven and twelve times tables facts	Children will look at the facts for the eleven and twelve times tables, and learn strategies to help them solve number sentences involving these factors. They will apply these strategies in their independent work to solve multiplication wheels and missing number questions, or to play the Banana Bonanza Game.	• Can children recall the multiplication facts for the eleven and twelve times tables? • Can children spot patterns and explain their reasoning? • Can children solve number sentences by applying their knowledge of the eleven and twelve times tables?	• Slides • Worksheet 1A/1B/1C • Banana Bonanza Game Sheet (FSD? activity only) • Banana Bonanza Game Counters (FSD? activity only)
Lesson 2	To know how to multiply a one-digit by a two-digit number	Children will revise their multiplication knowledge by answering quick-fire questions. They will learn how to multiply a one-digit number by a two-digit number using the distributive law. Children will be introduced to the use of brackets to separate the different steps in the calculation, and then will then apply this knowledge in their independent work.	• Do children understand this method? • Can children use this method to solve multiplication number sentences? • Can children verbally explain the steps they have taken to solve a multiplication number sentence?	• Slides • Worksheet 2A/2B/2C • Banana Balance Cards (FSD? activity only)
Lesson 3	To know how to multiply three numbers together	Children will learn and use the correct terms for numbers in a multiplication sentence. They will use the commutative law to solve multiplication sentences with three factors, and revise using the distributive law when multiplying a one-digit number by a two-digit number. In their independent work, children use this knowledge to find missing products as well as missing factors.	• Can children multiply more than two numbers together? • Do children understand that the numbers can be multiplied in any order (commutative law)? • Can children use their multiplication knowledge to find missing numbers in a problem?	• Slides • Worksheet 3A/3B/3C • Digit Cards A/B/C (FSD? activity only) • Banana Bonus Sheet (FSD? activity only) • Calculators (FSD? activity only)
Lesson 4	To know and use the divisibility rules	Children will learn and use the correct terms for each number in a division sentence. As a class they will then look at the divisibility rules for divisors of two, three, four, five and ten, and apply these to different three-digit numbers. Children will explore these rules further in their independent work, and some will be challenged to use the divisibility rules for six, nine and twelve.	• Can children explain what 'divisibility' means? • Do children understand the divisibility rules? • Can children use the divisibility rules to find out if a number is divisible by a specific number?	• Slides • Worksheet 4A/4B/4C • Divisibility Rules Sheet • Challenge Cards Set A/B/C (FSD? activity only)
Lesson 5	To use known multiplication facts to solve division number sentences with remainders	Children will be reminded of the link between multiplication and division facts. They will learn how to use their knowledge of multiples to identify remainders in a division sentence before calculating the quotient. Children then complete various activities which reinforce this strategy.	• Do children understand the link between multiplication and division facts? • Can they use their knowledge of multiplication facts to find answers to division number sentences? • Can children explain how they know what the remainder in a division number sentence will be before they have worked out the quotient?	• Slides • Worksheet 5A/5B/5C • Monkey Mayhem Game A/B (FSD? activity only) • Dice, markers and coloured counters (FSD? activity only)

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