

# Difficult Division: Maths : Year 6 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to solve division problems using chunking and express remainders as a fraction.	Children will recap how the chunking method of division works, starting by dividing two-digits by a single digit and moving quickly on to dividing three- and four-digits by a single digit. They will also learn how to express remainders as fractions and how to use multiplication to check division calculations that involve reminders.	<ul style="list-style-type: none"> <li>• Can children use an appropriate method to solve division problems?</li> <li>• Can children show a remainder as a whole number?</li> <li>• Can children show a remainder as a fraction?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 1A/1B/1C/1D/1E/1F</li> <li>• Digit Cards (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To be able to solve division problems and express remainders as a decimal.	Children will learn how to express remainders in division calculations as decimals. They will recap how to convert remainders to fractions, then use their understanding of the relationship between fractions and decimals to convert the remainder to decimals. Children will solve a variety of division calculations, many of which can be solved mentally.	<ul style="list-style-type: none"> <li>• Can children solve division problems and express the remainder as a whole number?</li> <li>• Can children solve division problems and express the remainder as a decimal?</li> <li>• Can children use calculators to explore decimals as remainders?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 2A/2B/2C</li> <li>• Calculation Cards 2A/2B/2C</li> <li>• Challenge Card 2A/2B (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To be able to solve division problems using the formal method of short division.	Children will recap the method of short division. They will divide three- and four-digit numbers by a single digit, as well as by two-digit numbers. Higher-ability children will be extended to dividing five-digit numbers by one or two digits. They will use their understanding of division and short division to solve missing number problems.	<ul style="list-style-type: none"> <li>• Can children solve four-digit by one-digit calculations using short division?</li> <li>• Can children solve four-digit by two-digit calculations using short division?</li> <li>• Can children recall division facts to solve appropriate problems mentally?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Division Maze 3A/3B/3C</li> <li>• Worksheet 3A/3B/3C (FSD? activity only)</li> <li>• d10 dice (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To be able to solve division problems using the formal method of long division.	Children will learn how the formal long division method works. They will divide three- and four-digit numbers by a two-digit numbers. Higher-ability children will be extended to dividing five-digit numbers by one or two digits. They will learn to solve calculations for themselves and they can also check calculations that have already been solved for inaccuracies.	<ul style="list-style-type: none"> <li>• Can children recognise what long division is?</li> <li>• Can children explain how the long division process works?</li> <li>• Can children solve problems using the formal long division method?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 4A/4B/4C/4D</li> <li>• Help Card</li> <li>• Multiplication Grid</li> <li>• Calculations Cards A/B (FSD? activity only)</li> <li>• Calculation Answer Sheet 4A/4B (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To be able to solve division problems using an appropriate method.	Children will choose an appropriate division method for solving a variety of word problems. They will consolidate their understanding of how and when to use formal short and long division methods, and choose how to express remainders.	<ul style="list-style-type: none"> <li>• Can children use a variety of methods to solve division problems, including formal short and long division?</li> <li>• Can children decide which method is most appropriate to solve different division problems?</li> <li>• Can children express remainders appropriately?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 5A/5B/5C</li> <li>• Division Crossword 5A/5B (FSD? activity only)</li> </ul>