

# Multiplication and Division Methods : Maths : Year 4 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To use the grid method to solve real-life multiplication problems	Children will recap on their knowledge of the grid method for multiplication, and apply it to real-life problems in the context of party planning and using money. Children are also challenged to spot mistakes in given grid methods, and use their understanding to correct them. In their independent activities, children will use this method to work out the costs of different party items, or in the alternative activity, find and correct errors in given calculations.	<ul style="list-style-type: none"> <li>• Can children explain how to use the grid method for multiplication?</li> <li>• Can children use the grid method to solve multiplication sentences?</li> <li>• Can children identify and explain errors in grid method calculations?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Party Paradise Sheet 1A/1B/1C</li> <li>• Shopping List Sheet</li> <li>• Buying Blunders Sheet A/B (FSD? activity only)</li> <li>• Whiteboards</li> </ul>
<b>Lesson 2</b>	To use the expanded method to solve real-life multiplication problems	In this lesson, children will be introduced to the expanded method for multiplication. They will first multiply two-digit numbers by a one-digit number, then move onto multiplying three-digit numbers by a one-digit number, discussing the extra steps that are needed. Children will be encouraged to compare the grid method and the expanded method. Children will use this method in their independent activities to work out the amounts of different ingredients needed for baking cakes.	<ul style="list-style-type: none"> <li>• Do children understand the expanded method for multiplication?</li> <li>• Can children use the expanded method to solve multiplication problems?</li> <li>• Can children check their work, and identify and correct any mistakes?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 2A/2B/2C</li> <li>• Recipe Cards A/B/C</li> <li>• Baking Store Sheet A/B</li> <li>• What's in my Basket? Sheet A/B (FSD? activity only)</li> <li>• Whiteboards/paper</li> </ul>
<b>Lesson 3</b>	To use the repeated subtraction method for division to solve real-life problems	Children will recap on their knowledge of the repeated subtraction method for division, and apply it to real-life problems in the context of party planning. They will be challenged to explain why a remainder will always be smaller than the divisor. Children will apply this method to their independent activities when calculating how much of each party food different numbers of children can have.	<ul style="list-style-type: none"> <li>• Can children explain the repeated subtraction method?</li> <li>• Can children apply their knowledge of the repeated subtraction method to solve real-life problems?</li> <li>• Can children check their work, and identify and correct mistakes?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 3A/3B/3C</li> <li>• Blank Number Line Sheet</li> <li>• Party Plate Sheet A/B</li> <li>• Pic 'n' Mix Amount Cards (FSD? activity only)</li> <li>• Pic 'n' Mix Sweets Cards (FSD? activity only)</li> <li>• Pic 'n' Mix Recording Sheet (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To use the chunking method for division to solve real-life problems	In this lesson, children will recap on the chunking method for division, and discuss when it is better to use this method instead of repeated subtraction. They will learn that it doesn't matter what size chunks they use- as long as their calculations are correct! Children will apply this method when playing the Snap Challenges or Remainder Round Up game.	<ul style="list-style-type: none"> <li>• Can children explain how to solve division number sentences using the chunking method?</li> <li>• Do children understand the term 'remainder'?</li> <li>• Can children apply their knowledge of the chunking method to solve division number sentences?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Snap Cards Set A/B/C</li> <li>• Snap Challenges Sheet</li> <li>• Remainder Round Up Game (FSD? activity only)</li> <li>• Score Sheet (FSD? activity only)</li> <li>• Dice Templates A/B (FSD? activity only)</li> <li>• Counters (FSD? activity only)</li> <li>• White boards</li> </ul>
<b>Lesson 5</b>	To choose and use appropriate multiplication and division methods to solve real-life problems	In this final lesson, children will discuss the methods they have used for multiplication and division so far, and explain how to solve word-based problems using them. Children will then apply all of their knowledge and understanding to solve multiplication and division problems based on different party trips.	<ul style="list-style-type: none"> <li>• Can children choose the correct operation to solve a problem?</li> <li>• Can children choose and apply a suitable method for solving multiplication problems?</li> <li>• Can children choose and apply a suitable method for solving division problems?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Terrific Trips Price Card A/B/C</li> <li>• Terrific Trips Question Sheet A/B/C</li> <li>• Manic Match Up! Q &amp; A Sheet A/B</li> <li>• Manic Match Up! Instructions</li> <li>• White boards</li> </ul>