

# Short Division: Maths : Year 5 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to multiply and divide numbers mentally drawing on known facts.	Children will start by identifying errors in simple calculations, then go on to practise solving calculations mentally using known multiplication and division facts, including multiplying and dividing by powers of ten, and multiplying by nine, eleven, etc. Children are encouraged to recall known facts quickly through a variety of games and activities.	<ul style="list-style-type: none"> <li>• Can children multiply numbers mentally drawing on known facts?</li> <li>• Can children divide numbers mentally drawing on known facts?</li> <li>• Can children use appropriate jottings and written methods when a calculation can't be solved mentally?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Calculation Chains sheet</li> <li>• Game Board 1A/1B/1C</li> <li>• Dice and counters</li> <li>• Top Trump Cards 1A/1B (FSD? activity only)</li> <li>• Spinner (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To be able to use the formal written method of short division.	Children will start by comparing the chunking and short division methods before recapping how short division works. They will do several calculations together as a class, checking each one with the chunking method. They can then practise short division independently but through a group activity, or solve missing number problems.	<ul style="list-style-type: none"> <li>• Can children format a short division question correctly?</li> <li>• Can children solve division problems using the short division method?</li> <li>• Can children check their calculations using other division and multiplication methods?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Calculation Cards 2A/2B/2C</li> <li>• Points Cards</li> <li>• Missing Number Challenge 2A/2B/2C (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To be able to solve problems using the short division method.	Children will work through a variety of word problems that involve short division (although some other operations are included to ensure children are reading and understanding the questions). They will think about the steps they need to take to solve the problem, and check their calculations. They can then either solve word problem crosswords or carry out a short division challenge.	<ul style="list-style-type: none"> <li>• Can children use the short division method correctly?</li> <li>• Can children interpret word problems and identify what they need to do to solve them?</li> <li>• Can children check their answers using appropriate methods?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 3A/3B/3C</li> <li>• Challenge Checklist 3A/3B/3C (FSD? activity only)</li> <li>• Divisibility Rules Card (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To be able to solve problems involving scaling by simple fractions.	Children will start with some quick-fire division questions that involve remainders as a warm-up. They will then go on to solve problems that involve scaling by simple fractions, using short division to find the answers. Bar modelling is used to help children visualise the problems. During their independent work, they will solve a variety of multi-step problems using scaling.	<ul style="list-style-type: none"> <li>• Do children understand the link between fractions and division?</li> <li>• Can children use short division to solve problems that involve scaling by simple fractions?</li> <li>• Can children check their answers using an appropriate method?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Challenge Cards 4A/4B/4C</li> <li>• Celebrity Height Cards (FSD? activity only)</li> <li>• Character Cards (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To be able to solve a variety of multi-step problems.	Children will recap the steps they need to take in order to successfully solve word problems. They will then tackle a variety of multi-step problems that involve addition, subtraction, multiplication and division. Children will need to choose an appropriate operation and method for each step of the problem, as well as thinking about how they can check their answer is correct.	<ul style="list-style-type: none"> <li>• Can children identify what multi-step problems are asking them to find out?</li> <li>• Can children choose an appropriate written method for solving calculations, including short division?</li> <li>• Can children check their calculations for accuracy?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Calculation Cards 5A/5B/5C</li> <li>• Picture Puzzle 5A/5B cards (FSD? activity only)</li> <li>• Picture Puzzle Images (FSD? activity only)</li> <li>• Picture Puzzle 5A/5B Answer Boards (FSD? activity only)</li> </ul>