

# What's the Total?: Maths : Year 5 : Autumn Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to add numbers mentally and use rounding to estimate answers.	Children will answer a series of quick-fire addition problems as a warm-up before using mental addition (where possible) to work their way through an addition maze. Children are encouraged to use rounding to estimate totals to help them. They can also use these skills to help them add three numbers together to reach a given total.	<ul style="list-style-type: none"> <li>Can children recall addition facts mentally?</li> <li>Can children use rounding to estimate the answers to addition calculations?</li> <li>Can children add several numbers together using mental methods?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Addition Mazes 1A/1B/1C</li> <li>Number Cards 1A/1B (FSD? activity only)</li> <li>Challenge Cards 1A/1B (FSD? activity only)</li> <li>Bingo Game Cards</li> <li>Bingo Game Questions sheet</li> </ul>
<b>Lesson 2</b>	To be able to add more than two numbers together using the decomposition and expanded methods.	Children will start by identifying missing numbers in number chains that increase in steps of powers of ten. They then go on to recap the decomposition and expanded methods of addition, using these methods to add three numbers together.	<ul style="list-style-type: none"> <li>Can children count on in steps of powers of ten?</li> <li>Can children use the decomposition method to add more than two numbers together?</li> <li>Can children use the expanded method to add more than two numbers together?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Question Card 2A/2B/2C</li> <li>Worksheet 2A or squared paper</li> <li>True or False Cards 2A/2B (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To be able to use column addition to add several numbers together.	Children will recognise similarities and differences between the expanded and formal column addition methods before recapping in detail how the formal column addition method works. They will use this method to add two or three numbers together in a variety of contexts.	<ul style="list-style-type: none"> <li>Can children describe the similarities and differences between the expanded method and formal column addition?</li> <li>Can children use column addition to add two or more numbers accurately?</li> <li>Can children use rounding to estimate and check the answer to a calculation?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Challenge Card 3A/3B/3C</li> <li>Worksheet 3A</li> <li>Question Sheet 3A/3B (FSD? activity only)</li> <li>Book Page Cards (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To be able to solve missing number addition problems.	Children will start by adding several numbers (all steps of powers of ten) to a given number mentally. They will then go on to recap how the formal column addition method works before solving missing number problems involving column addition. Children will add two or three numbers together from two-digit to four-digit numbers. They can also investigate how to find all possible calculations when inserting four digits into a missing number calculation.	<ul style="list-style-type: none"> <li>Can children explain how the formal column addition method works?</li> <li>Can children solve calculations accurately using the column addition method?</li> <li>Can children solve missing number problems using column addition?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 4A/4B/4C/4D/4E</li> <li>Challenge Card 4A/4B (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To be able to use column addition to solve addition problems.	Children will use column addition to solve problems involving distance. They will look at a distance chart to find the distances between different UK cities or international airports and use this information to calculate the length of different journeys to several places. Children are encouraged to use rounding to check their answers.	<ul style="list-style-type: none"> <li>Can children use the column addition method correctly?</li> <li>Can children use the column addition method to solve addition problems?</li> <li>Can children check their answers?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 5A</li> <li>Journey Cards 5A/5B/5C</li> <li>Distance Chart 5A/5B/5C/5D</li> <li>City Cards (FSD? activity only)</li> </ul>