

# Let's Solve Problems! : Maths : Year 2 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To find different ways of using addition and subtraction to result in a given number.	Children use their knowledge of number bonds to 20 and 100 to explore different ways that they can use addition, and a few subtraction calculations to reach a target number. They use Tarsia puzzles to practise quick recollection of number bonds.	<ul style="list-style-type: none"> <li>Can children use their knowledge of number bonds to help pair numbers to a familiar total?</li> <li>Are children able to derive other number facts from a known calculation?</li> <li>Can children add two or more numbers to result in a given total?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Triangle Tarsia Puzzle 1A/1B</li> <li>Photo Sheet 1A</li> <li>Challenge Card 1A/1B (FSD? activity only)</li> <li>Animal Cards 1A (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To determine different ways that numbers can be split and record this using addition and subtraction calculations.	Children investigate the different ways in which numbers can be split. They look at the calculations that can be made from the way they have split the numbers and how these calculations can be built with two or more numbers.	<ul style="list-style-type: none"> <li>Can children find different ways of using addition to make an amount?</li> <li>Are children able to find the inverse addition or subtraction calculation?</li> <li>Can children use the inverse calculation to check or solve a problem?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 2A/2B</li> <li>Physical objects e.g. counters</li> <li>Photo Sheet 2A</li> <li>Challenge Card 2A (FSD? activity only)</li> <li>Large paper (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To use bar models to help represent and solve addition calculations.	Children revisit using bar models to represent a problem in different ways. They explore how the different parts of the model relate to one another and use them to derive the four inverse addition and subtraction calculations for each problem.	<ul style="list-style-type: none"> <li>Can children input numbers into a bar model to represent an addition problem?</li> <li>Are children able to draw a bar model to represent an addition problem?</li> <li>Can children derive inverse calculations from a bar model representation?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 3A/3B/3C</li> <li>Photo Sheet 3A</li> <li>Challenge Cards 3A/3B (FSD? activity only)</li> <li>Multi-link cubes (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To use bar models to represent and solve subtraction problems.	After investigating bar models in the previous lesson, the children will see how bar models can help them represent and solve subtraction word problems. They are challenged to input and draw information into a bar model before writing a subtraction calculation for each.	<ul style="list-style-type: none"> <li>Can children find missing numbers from a bar model by finding the difference?</li> <li>Are children able to draw a bar model for a subtraction problem?</li> <li>Can children derive all known calculations from a bar model?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 4A/4B/4C</li> <li>Photo Sheet 4A</li> <li>Bar model pieces 4A (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To apply our understanding of addition and subtraction methods in different contexts.	Children have the opportunity to apply their understanding of written and mental methods for addition and subtraction in an engaging context. The children learn the game Strike-Out and use this to calculate small sums or differences. They also have the opportunity to play Snakes and Ladders with a small twist in order for them to calculate sums and differences as they play.	<ul style="list-style-type: none"> <li>Can children choose resources to effectively support their calculations?</li> <li>Are children able to apply their methods of addition and subtraction in different contexts?</li> <li>Can children determine when they are able to use a mental method?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Teacher Notes 5A</li> <li>Game Board 5A/5B</li> <li>Physical resources e.g. counters, number lines, hundred squares, bead strings etc.</li> <li>Dice</li> <li>Photo Sheet 5A</li> <li>Strike-Out Cards 5A/5B (FSD? activity only)</li> </ul>