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Aim: Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers. To add three 1-digit numbers.	Success Criteria: I can use number facts to add three 1-digit numbers. I can use number doubles to add three 1-digit numbers. I can select strategies to add three 1-digit numbers.	Resources: Lesson Pack Ten-frames and counters - as required
	Key/New Words: Number fact, number bond, add, addition, plus, and, number double, part, whole, part-whole model, partition, reason, explain.	Preparation: Differentiated Add Three 1-Digit Numbers Activity Sheets – one per child Diving into Mastery Activity Cards – as required

Prior Learning: It will be helpful if children have experience adding 1-digit numbers crossing ten. The following lesson supports this learning: _____.

Learning Sequence

	Remember It: Children revisit number facts up to ten as they play rapid recall games. The Lesson Presentation then invites the children to spot patterns to help them check that they have found all of the possibilities. The children revisit number facts of ten in preparation for today's challenge.	
	Spot It: The Lesson Presentation invites children to spot number facts of ten hidden in calculations adding three 1-digit numbers. Children use a part-whole model to make ten, then add the remaining number. Ten-frames are also used to represent the calculation. As you click through the animations, each stage of the method is represented.	
	Make It (1): The Lesson Presentation invites the children to consider what happens when a fact of ten can't be found in the calculation. Children are shown how to use a part-whole model to partition and create a number fact of ten. Then, they add the remaining numbers. Ten-frames are also used to represent the calculation. As you click through the animations, each stage of the method is represented. Can the children use number facts of ten to add three 1-digit numbers?	
	Double It: The Lesson Presentation suggests that children could also look for number doubles in the calculations. They practise recalling doubles and spotting patterns, before applying them to calculations. Children use a part-whole model to add the number double, then add the remaining number. Ten-frames are also used to represent the calculation. As you click through the animations, each stage of the method is represented.	
	Make It (2): The Lesson Presentation invites the children to consider what happens when a number double can't be found in the calculation. Children are shown how to use a part-whole model to create a number double, then add the remaining numbers. One click on each slide will reveal the sequence. Can the children use number doubles to add three 1-digit numbers?	
	Try It: The Lesson Presentation invites the children to select strategies to solve the calculations. Ask the children to explain their reasoning. Click to reveal each solution. Can the children select strategies to add three 1-digit numbers?	

	<p>Three Numbers: Children complete the differentiated Add Three 1-Digit Numbers Activity Sheets to add three 1-digit numbers.</p> <p> Children find number facts of ten then add the other number. They then find number doubles and add the other number. Finally, children select strategies to solve calculations. Children may also use ten-frames and counters to support their learning.</p> <p> Children add three 1-digit numbers by finding and applying number facts of ten and number doubles. When these can't be found, children partition one of the numbers to create number facts of ten or doubles. Finally, children select strategies to solve calculations.</p> <p> Children select strategies to add three 1-digit numbers. They find number bonds of ten and doubles. Where these can't be found, children partition one of the numbers to create number facts of ten or number doubles. Encourage children to compare and discuss their investigations and discover that there is more than one possible solution to some of the challenges.</p>	
	<p>Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.</p> <p> Children build fluency adding three 1-digit numbers by spotting known number facts within the calculations. Children may benefit from using ten-frames or part-whole models to support their learning.</p> <p> Children apply their reasoning skills to determine which calculations are true and which are false. Children find ways to demonstrate or explain their reasoning.</p> <p> Children find different ways to reach a total by adding three 1-digit numbers. They use number facts of ten and number doubles to find solutions. They may wish to use counters and ten-frames, part-whole models or jottings to investigate different solutions.</p>	
	<p>How Many Ways: Children investigate how many ways they can add three numbers to make the number 11.</p>	

Exploreit

Scoreit: Children deal each other three of the cards. They look at each other's cards and estimate who has the highest score before adding them to find the total. The person with the highest score wins a point. The person with the correct prediction also wins a point.

Solveit: Use these cards to continue to practise using different strategies to add three 1-digit numbers.

Learnit: Children will find this superb resource a great resource to support addition and subtraction methods.