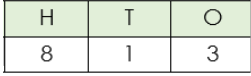


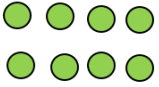

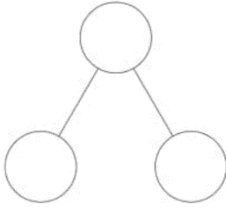

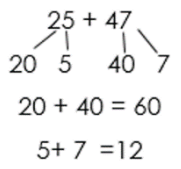
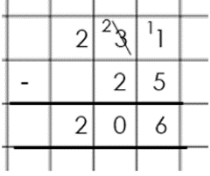
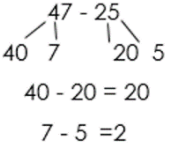
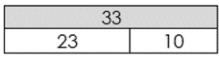
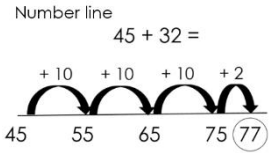
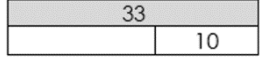
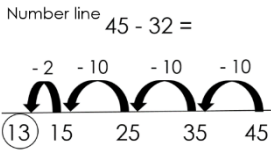


Year Three: Addition and Subtraction Knowledge Organiser

Key Learning		Practical resources	
<ul style="list-style-type: none"> – Add and subtract numbers mentally, including: <ul style="list-style-type: none"> • a three-digit number and ones • a three-digit number and tens • a three-digit number and hundreds – Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction – Estimate the answer to a calculation and use inverse operations to check answers – Add and subtract amounts of money to give change, using both £ and p in practical contexts – Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction 		<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Place value grid</p> </div> <div style="text-align: center;">  <p>Base ten</p> </div> <div style="text-align: center;">  <p>Number Lines</p> </div> <div style="text-align: center;">  <p>Place value counters</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;">  <p>Coins</p> </div> <div style="text-align: center;">  <p>Part Whole Model</p> </div> </div>	
Key Vocabulary		Addition Strategies	Subtraction Strategies
Add	Plus, increase, total, sum, more, all together	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Column addition</p>  </div> <div style="width: 45%;"> <p>Partitioning</p>  </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Column subtraction</p>  </div> <div style="width: 45%;"> <p>Partitioning</p>  </div> </div>
Subtract	Take away, minus, difference, less, decrease, left		
Exchange	For example, exchanging (swapping) a ten for 10 ones.		
Carry Over	For example, carrying over 10 ones to the tens column.		
Partition	Splitting large numbers into smaller units.		
Pounds & Pence	1 pound is equal to 100 pence.	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Bar model</p>  </div> <div style="width: 45%;"> <p>Number line</p>  </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Bar model</p>  </div> <div style="width: 45%;"> <p>Number line</p>  </div> </div>
Change	The difference between the amount of money you have and the cost of the item.	<p>Compensation:</p> $17 + 9 = 17 + 10 - 1 = 26$ $26 + 11 = 26 + 10 + 1 = 37$	<p>Compensation:</p> $17 - 9 = 17 - 10 + 1 = 8$ $26 - 11 = 26 - 10 - 1 = 15$
Estimate	Roughly work out the answer.		
Inverse	Use the opposite operation. Subtraction is the inverse of addition.		