Year 4 Addition and Subtraction

Key words: column method, place value, digits, thousands, hundreds, tens, ones, regrouping, exchanging.

Resources: hundred square, place value grid, number line, counters, ruler.

By Year 4, children should be able to add and subtract up to 4-digit numbers using the column method and the processes of regrouping and exchanging.

	Addition				Solution
WTS	Now comp What is the	lete 3,242 e same? Wl w the place	nat is differ	same way.	3242 +2213 +213 5455 The H.T and O's digits are the same. The Th digit is different.
EXS	Two children completed the following calculation: 1,234 + 345 When I added 1,234 and 345 together I got 1,589. Eleanor Suri 1 added 1,234 to 345 and I got 4,684. Both of the children have made a mistake in their calculations. Calculate the actual answer to the question. What mistakes did they make?				1234 345 1579 Suri = 1589 - She thought that 344 = 8 not 7. Eleanor = 4684 - She didn't line the sum up 1234 correctly. 345 4684
GDS	together	ct?	er make		Luke is correct because the highest digit you can use is 9 and 9+9=18, so the '10' would be exchanged. E.g. 9999 19998 1777

	Subtraction		
WTS	1) Subtract 2,332 from the number below.	3454 -2332 1122	
	Complete this subtraction problem. Thousands Hundreds Tens Ones 7 6 4 6 - 4 3 3 5 3 1 1 Use APE to explain how you know you are correct.	A: 3311 P: E: I know I am correct because I stated from the ones column and worked left, -	
EXS	There were 2,114 visitors to the museum on Saturday. 650 more people visited the museum on Saturday than on Sunday.	the bottom number from the top Saturday = 2114 Sunday = 18114 - 650 1464 Sat Sun	
	Altogether how many people visited the museum over the two days? What do you need to do first to solve this problem?	2114 I had to †1464 Subtract first 3578 and then add.	
GDS	Find the missing numbers that could go into the boxes. Give reasons for your answers. -1, 345 = 4 6	1345 + 406 1751 1345 1751 1761 1771 1345 1345 1345	
	What is the greatest number which —7 84 could go in the first box? What is the smallest? —7 175 How many possible answers could you have? —7 10 What is the pattern between the numbers? —7 Both numbers in crease 10 passible answers by 10 13 15 15 15 16 16 16 16 16	+ 436 + 446 + 456 1781 1791 1801 1345 1345 1345 + 466 + 476 + 486 1811 1821 1831 187	