Place Value Question 14

Objective: I can say 1000 more or less than any four digit number

I can use my knowledge of 1000 more or less to mentally calculate.

NPV 2: find 1000 more or less than a given number

Assessment Question

123 Number + Place Value	**Question 14 :** I can find 1000 more or less than a number	I feel

Answer these sums:

4698 + 1000 =	1890 - 1000 =
240 + 1000 =	8372 - 1000 =
4812 + 2000 =	3425 - 3000=

Teacher Notes:

- Start on a 3 digit number and count on in 1000s around the class. Then start on a 2 digit number and repeat. Repeat counting back a thousand at a time.
- Using a place value chart, encourage the children to use previous learning to discuss what happens with 4 digit amounts when 1000 is added or taken away. What digits change? Why? Can you explain how I can use this knowledge to workout 3456 + 2000?
- Place flip cards around the class with different 3 and 4 digit amount on. Place sums with adding thousand or subtracting a thousand . encourage the children to lift up the flap to reveal the answer to each sum. Use this time to support children who demonstrate difficulty and ask them why they think that this is the answer? What do they notice? What digit has changed? Can I work this out mentally? You can also pair the children up with children that demonstrate understanding so that they can explain to each other how the answer has been found.

Practice Activities

Purple Practice: most suited for children who demonstrate difficulty in Question 14 of the prior learning assessment when finding a 1000 more and less than a given number.

For the purple task the children are provided with large blocks to take away 1000 or add 1000 at a time. The children may also benefit from having the images provided on the support sheet to help them to make each amount visually. The children can place these blocks on to the place value chart for each amount needed for the question. The children can then explore taking a 1000 block away or adding 1000 block. When confident, the children may want to replace the images with digits and explain how the thousand digit is the only one to change for the questions provided.

Green Practice: Most suited for children who show some accuracy in Question 14 and need to secure counting on and back in either ones, tens , hundreds or thousands .

For this activity the children are provided with 4 digit numbers that do not cross a ten or hundred boundary when either one, ten, hundred or a thousand is added or subtracted. The children are also presented with blocks with – 1,-10, -10-0, -1000 and +1, +10, +100, +1000 for the children to select a number card and perform one of the operations. This will help the children to secure not only adding and taking away 1000 but also secure previous learning and ensure they have a good understanding of place value.

Yellow Practice Most suited for children who show accuracy in Question 14 and will benefit from + and - multiple amounts of 1, 10, 100, and 1000 .

For this activity the children are provided with sums where they are to mentally subtract or add either groups of 1, 10, 100 or 1000 to apply their knowledge of place value and to encourage them to explore mental calculation strategies.

Mastery: The children are provided with word problems where they will need to apply their knowledge of adding and taking away 1000 , 100 , 10 or 1. The amounts are also written in words so the children are to apply previous learning of writing amounts accurately using digits.

Key questions : What is the question asking you to do? Which information is important? How can this help you to work out the answer? How will you calculate this? Is there a different way to work out the answer? Which way is the most efficient? Why?

Answers:

Yellow:

1) 5209   2) 1568

3) 5721   4) 2987

5) 6572   6) 8324

7) 6433   8) 7301

Mastery:

1) £1145
2) 2350 cm
3) £8499
4) £4080

Pick a block and either add or subtract 1000.
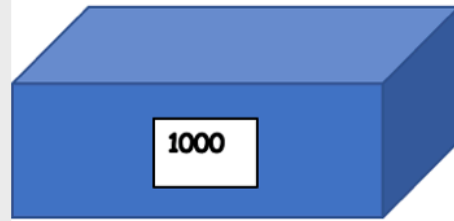
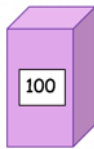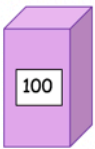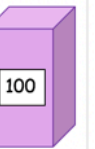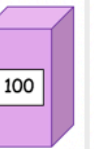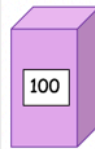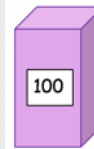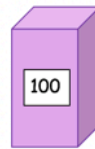|	
6574	2094
8201	5009
3456	7020
1492	1006

1000   1000

1000   1000
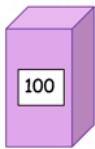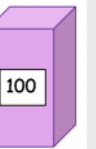
100 100 100 100 100 100   100 100 100 100
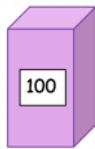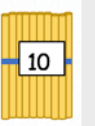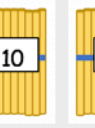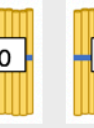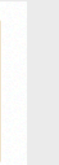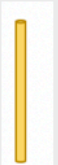
100 100 100 100

10 10 10 10 10

10 10 10 10 10 10 10 10 10 10

Green Practice

LO: I can find 1, 10, 100 and 1000 less and more than a 4 digit number
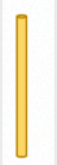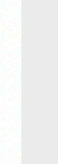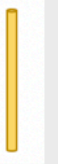
1512	6768	8382
2345	7621	3129
9102	7690	8001

+ 1	+ 10

+ 100	+ 1000	- 1

- 10	- 100	- 1000

Look at the sum for each question. Use your knowledge of place value to mentally calculate each answer.

1) 3209 **+** 2000 **=** [　]

2) 4568 **−** 3000 **=** [　]

3) 9721 **−** 4000 **=** [　]

4) 987 **+** 2000 **=** [　]

5) 6272 **+** 300 **=** [　]

6) 8924 **−** 600 **=** [　]

7) 6453 **−** 20 **=** [　]

8) 7281 **+** 20 **=** [　]

1) Arthur saves money in his bank account. Over the past twelve years he has saved one thousand and forty five pounds. On his birthday, he receives £100 from his grandparents. What is the total of his savings?

2) Pritesh measures two thousand, four hundred and fifty centimetres of fabric for his dad at his factory. A customer wants to buy 1 metre of fabric. How many centimetres of fabric is left?
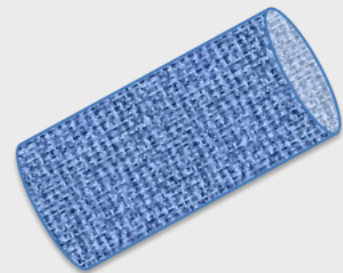
3) A car costs nine thousand, four hundred and ninety nine pounds in a car showroom. It is £1000 pounds cheaper to buy on the internet. How much is the car on the internet?

4) Susan is saving for a trip around the world. Susan has three thousand and eighty pounds saved. For the next ten months, Susan will save £ 100 pounds a month. How much money will she have saved altogether?