Numeracy Learning at Home Secure within 1000

Information for Parents

On the back of this sheet, there is a grid of activities which you can do with your child to help them practise number skills. Doing these a little and often will build their understanding of number concepts, complement their work in school and prepare them well for future learning. Background to this developmental stage

Firm foundations are very important. In school, by this stage, your child will be carrying out some more complex maths and will begin to use written methods like this:

233	345	234	
+429	<u>-223</u>	<u>× 4</u>	3)345

The best way for you to help is by continuing to help your child develop firm conceptual understanding and mental methods so we strongly recommend <u>parents do not teach these</u> <u>methods at home</u> but instead work on the ideas suggested in the grid which will encourage the development of mental strategies and boost strong conceptual understanding. By this stage, your child should have moved beyond counting by ones when doing a calculation and they should count by 2s, 5s, 10s etc. However, it is often very helpful to use fingers to keep track of how many 2s, 5s, 10s etc we have counted. Some of the ideas in the grid are repeated from earlier levels and focus on numbers below 100 - it is really important for children to keep working on basic number facts at this stage so that they fully embed them in their memory - this is called 'over learning'. Please don't think that the ideas in these sheet represent all the maths your child is learning in school. We are asking you to work on these basics with them to support the more complex work they are now doing in school.

Tips and Hints:

These tasks should be fun and enjoyable for you and your child.

- 10 minutes a day is enough.
- Don't carry on when your child gets bored.
- Don't get cross if your child can't do it try a different task or smaller numbers.
- Don't feel worried if your child is stuck, just try something different.
- Don't worry if it seems easy lots of practice is very important and you will find there are some numbers your child finds harder and needs more practice with.
- Involve older and younger siblings.
- Make sure your child doesn't think it is babyish to use fingers or objects to help with counting or working out. This is a good strategy and it promotes solid understanding.
- Use games on tablets or computer with care some are very good but in others your child may appear to be doing well but is actually using a different clue to click the right answer and isn't developing number knowledge. We would always recommend your child does not use a screen for at least one hour before bedtime as the blue light can suppress the body's ability to produce melatonin and so prevent a good night's sleep.

Play board games involving bigger numbers e.g. Monopoly or Top Trumps or which involving adding or subtracting e.g. Scrabble.

Use £1 coins, ten pences and one pences to lay out amounts to £10 (1000 pennies).

Keep helping your child recall number bonds to 100 (two numbers which add up to 100):

99+1, 34+66 and so on. You can draw your child's attention to the rule that the tens numbers add to 9 tens and the ones numbers add to 10 making 10 tens (100) in total.

Help your child learn their tables - chant them in the car, test them on sums, play internet games. If your child can recall tables facts, this will hugely help them in later life.

Give them a number and ask them to double it (use <u>partition</u> to help if needed).

Give them a number and ask them to halve it (use <u>partition</u> to help if needed).

See right for an explanation of partition.

Help your child see what 1000 looks like. Make a 1000 collection of something. This is a good opportunity to help your child see that 10 lots of 10 makes 100 and 10 lots of 100 makes 1000. For example, if you collect ten stones ten times you have 100. If you do that 10 times you will have 1000. Count your collection in 10s to make 100 piles and then in 100s up to 1000. If you don't have as many as 1000, count how many you do have, this is just as valuable you might have 4 lots of 100, 3 lots of 10 and 2 more - 432. You could collect stones. shells, leaves or sticks over a period of time when you are out and about - don't worry that this will take many weeks to have 1000 - this will help your child see just how big 1000 is. Alternatively you could use something little you have in the house e.g. grains of rice.

Play pairs - make cards with the numbers 0-100 on them. Spread them out on the table. Each player takes turns to turn two over - if they add to 100 they can keep them. The player with the most cards at the end wins. You can make the games shorter by using fewer cards but makes sure the cards you use are pairs to 100.

Make a set of cards with sums on them (addition and subtraction). Write the answers on another set - challenge your child to match them up or use them to play pairs.

Do lots of counting within 1000 - count up and down in ones, twos, fives, tens and threes. Don't always start at 1 e.g. start at 92 and count to 592 in 10s or start at 846 and count to 1000 in 2s or start at 999 and count down to 599 in 10s. This is a great activity for in the car.

Ask lots of questions and sums - start off using two digit numbers, increase to three when this seems easy e.g.:

There are 39 cherries in the bowl, how many more would make 62?
There are 180 packets of crisps, how many left after we all eat 3 packets each?

There are 62 sweets, how many can you and your brother have each? (what about if there are 63?)

What is 23+47, 58-23, 34×4, 55 divided by 5, how many 3s in 27..... Let your child work these out mentally or let them write their working down. Don't worry about whether they are doing it the 'right' way. Letting your child experiment with their own methods is allowing them to explore number concepts and this will help them develop strong understanding. If they are stuck, encourage them to partition the number into tens and ones e.g. 23 + 47 is 2 tens + 4 tens = 6 tens or 60 and 3 ones + 7 ones = 10 so the whole answer is 70 or 23 + 40 =63, 63 + 7 = 70. There is no one correct way, let them experiment.