

Marvellous Maths

Year 1:

This week we would like your child to be able to add and subtract 10 and multiples of 10 using a 100 square.

1. Adding 10

The children are very familiar with our counting in 10s song. It starts with "count in 10s, 10 to 100, count in 10s, 10 to 100" then one person says 10 and the other repeats all the way to 100 and then you swap turns.

Have a look at the 100 square that your child has already made or there is one on the website (alternatively your child can make their own again if they want to!). Look at the 10s column. Ask your child what happens as they go directly down the 10s column row by row. They will hopefully realise that they will be adding 10 each time. They will recognise the 10, 20, 30 pattern. Now ask them to make a tiny spider or use a counter, bit of lego etc and put it on a number on the hundred square. Explain that if they move the spider (counter etc) directly down a row they have added 10. Ask your child to prove it by counting from the first number to the one the counter is now on. Repeat with a few more random numbers and stress that the ones column doesn't change, only the 10s column in a number. Nb you could also make bundles of 10 straws or sticks to help to visualize the idea of '20 is 2 tens, 30 is 3 tens' etc

Now play 100 Hunt, selecting 10 more. Your child can play this independently or with you.

<https://www.ictgames.com/mobilePage/hundredHunt/>

There are also some counting in 10s dot to dots on the website if your child would like to give them a go. They do range in ability levels so scroll through them, again this should be a fairly independent activity!

2. Adding multiples of 10

Revisit that when your child added on 10 last session then dropped down one row. How do they think they could add 20? Draw out that 20 is made of 2 sets of 10 so they would need to drop down 2 rows. Again emphasise that the ones column doesn't change but only the 10s digit. Repeat with another number and add 20, then 30 and finally 40!

Ask your child to have a go at session 2's resources from the website.

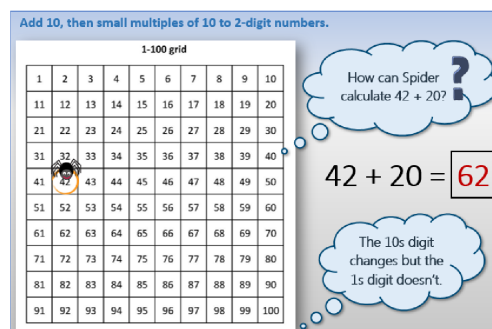
3. Subtracting 10

Reiterate that 20 is 2 tens, 30 is three tens, so when adding in tens we can say 1 ten 2 tens 3 tens, or 10,20, 30. If you have made 10s bundles, then use these to demonstrate.

Write both of these down in a column for your child to see. Ask them to show you on the 100 square. Now remind them we can count backwards in 10s by taking away, or subtracting, 1 lot of ten each time – 10 tens, 9 tens, 8 tens, 7 tens etc, or we can say 100, 90, 80 etc. Ask them to show you on the 10s column of the number square.. Draw out that you move up a square to subtract ten. Ask them to choose a number on the number square— how would they add 10? How do they think you would take away 10? Demonstrate that it works for any number—if you move the counter up one square, you have subtracted ten. Play Chopper Squad, choosing the 'ten more or less: numbers 1-100' option.:

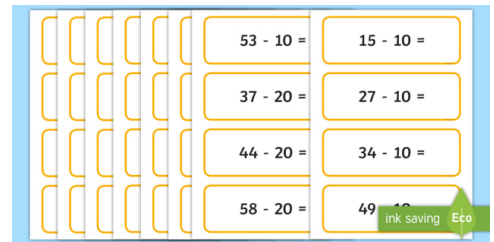
<https://www.topmarks.co.uk/learning-to-count/chopper-squad>

You could also play the Subtracting 10 Race if you wish (see PDF).



4. Subtracting multiples of 10

Practise counting forwards and backwards using both methods—one 10, two 10s, three 10s, and 10,20,30... Revisit that when your child took away 10 last session they moved up one row. How do they think they could subtract 20? Draw out that 20 is made of 2 sets of 10 so they would need to move up 2 rows. Again emphasise that the ones column doesn't change but only the 10s digit. Repeat with another number and subtract 20, then 30 and finally 40.



Use the number square to have a go at either the subtracting multiples of ten worksheet or flashcards (see PDFs) Or play the Ski Racer game here: <https://www.education.com/game/ski-racer-subtract-by-multiples-of-10-from-multiples-of-10/> (note this game uses the word 'minus', so remind your child it means the same as take away or subtract!)

5. Number reading and writing practice!

Practice reading and writing numbers to 20 in words and numbers, either independently, or using the resources on the website—I've included a powerpoint/game, look-cover-write-say-check or number snap. If your child is progressing well on this, challenge them to write the numerals and words themselves — no reading or spelling mistakes, and no backwards numerals are the aims!!!

