

## Marvellous Maths

### Year R:

This week we will be focussing on counting, reading and writing numbers to 20 and beyond and also number bonds that make 10.

1. **Counting practice.** Take it in turns to count up to 20 but give each other a number you can't say e.g. 6 so you would then count 1, 2, 3, 4, 5, 7, 8, 9 etc also missing out 16. Then count back again missing the same number out. Repeat choosing different numbers to exclude. To extend this game try counting from 20-30, 30-50 etc.

Now play "Match my number" - the rules are on the website and can be adjusted to use higher numbers if your child is ready.

2. Ask your child to find 10 objects. Ask them to put them in a line and count that they have ten by touching each one as they count. Ask your child to write numbers 0-10 on individual bits of paper. Ask your child to shut their eyes and tell them that you (or their toy) are going to take some away. When your child opens their eyes they need to hold up the card showing the number that is missing. For each one they get right they get a counter (it's up to you if a certain amount of counters will lead to another prize!). Encourage your child to count forward from the remaining amount or back from 10 to find the answer.



### 3. Number Bonds to 10 —addition

Ask your child to choose ten objects and show you how they could be divided into 2 groups. Show them how to write the addition sentence for what they have done eg  $2 + 8 = 10$ . Tell them we're going to write as many ways as possible of making ten by moving the toys around, but always using all the toys. Write each number sentence on a separate card. When they have found all the different ways, show them how to order the cards systematically eg  $1 + 9 = 10$ ,  $2 + 8 = 10$ ,  $3 + 7 = 10$ .

Using a wire coathanger and ten pegs of two different colours for them to demonstrate with, ask your child to be the teacher, and teach you how to do number bonds to ten. Can they show you the number bonds you've just written down, working systematically, by moving 1 peg at a time. Show them that if you turn the coathanger round, you get a related number sentence (eg  $1 + 9 = 10$ ,  $9 + 1 = 10$ ). Can they teach you to write the number sentences? Can they show you how to be systematic (ie moving one peg at a time)? Encourage language such as adding, plus, getting bigger etc

Make a number bonds rainbow for your window—see the PDF—fill in the number sentences by matching the ends of each colour and write the number sentences.

There is also a lesson on number bonds and linked activities on BBC Home Learning—this is the link:

<https://www.bbc.co.uk/bitesize/articles/zh8m6v4>

### 4. Number bonds to 10—subtraction

Using your 10 toys from yesterday, show your child that these groupings can also be written in a different way: 10 (our starting number) take away 2 equals eight. Tell them we're always going to start with ten and ask them to help you write the number sentences. As yesterday, can they order them, or find patterns ( $10 - 8 = 2$ ,  $10 - 8$  etc). Can they be the teacher with the coathanger? Encourage language such as take away, subtract, minus, getting smaller etc

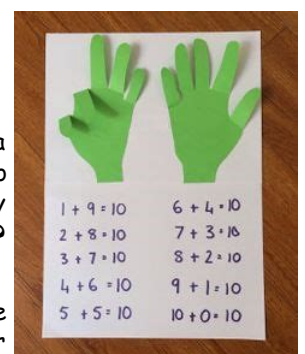
Draw round and cut out your child's two hands and stick them to paper; ask them to use the fingers to show and write the number bonds, trying to use both addition and subtraction number sentences: can your child spot any number sentences that could be similar? (eg  $2 + 8 = 10$ ,  $8 + 2 = 10$ ,  $10 - 2 = 8$ ,  $10 - 8 = 2$ ),

Play the Number Bonds bubble buster" game online — the link is here: <https://www.education.com/game/number-pairs-bubble-buster/>

Or Dino-fishing <https://www.education.com/game/dinofishing-making-10/>



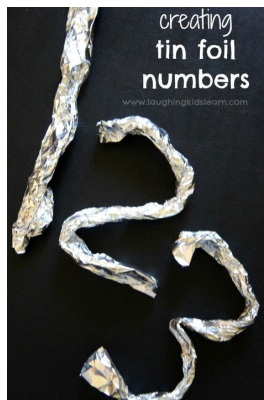
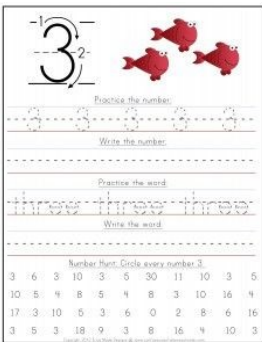
Make Ten  
with Sticky Notes



## 5. Number formation practice

Today is a chance to practise those numerals, making sure there are no backwards numbers! There are lots of ways to play number practice. Either make your own resources, or choose a selection from the games below:

- Try the roll-add-write PDF (2-12 ... you could add in another dice to generate numbers to 18)
- complete the number formation workbook PDF (which also teaches the number words and a number hunt)
- the train below (0-10)
- practice writing in sand or salt, or with water and a paintbrush on your path, then write them on your paper too
- make a whole set of numbers from 0-20 out of playdoh or tinfoil then write them on paper in order
- write rainbow numbers—can you write numbers 0-20 in each colour of the rainbow?
- paint all the numbers with your fingers on a huge piece of paper and then write them all in order with your pencil



name \_\_\_\_\_

Roll, Add, and Write

2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12



