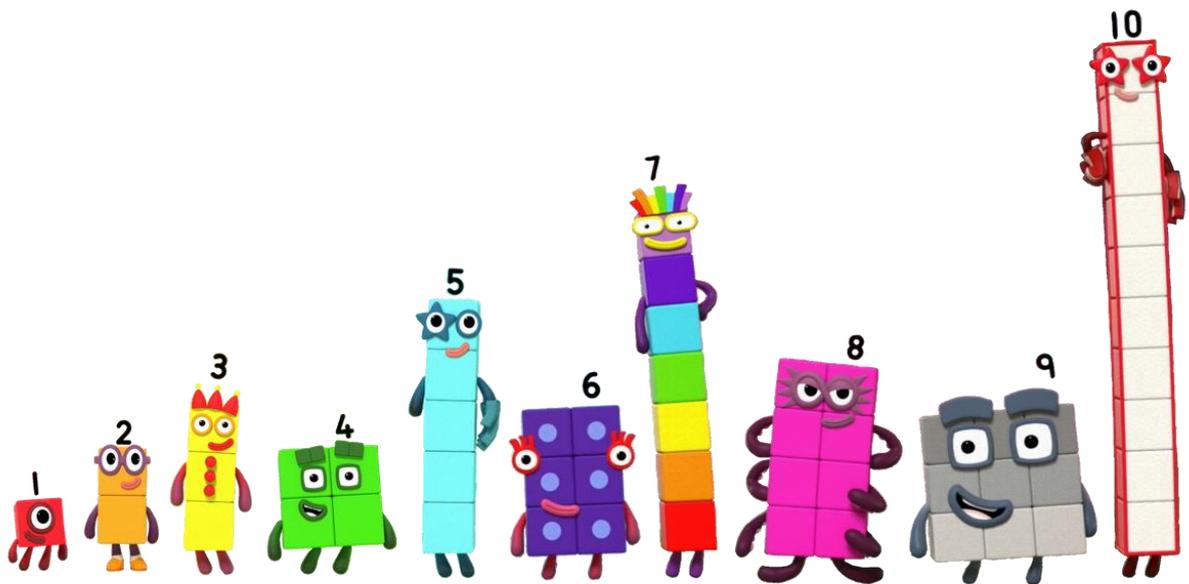


Fiddlers Lane

Community Primary School

Parents' Guide to Number Bonds

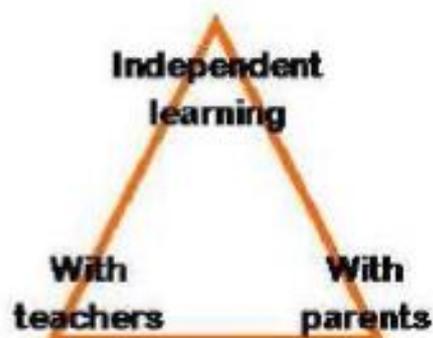


Help your child to achieve their best in
Mathematics.

The importance of number bond knowledge

- Knowing number bond facts are crucially important to your child's progression in their mathematics education.
- Without a deep understanding of number facts children begin to struggle moving forward with new mathematical concepts.
- Children who are secure in their number knowledge are able to get to grips with trickier tasks straight away and are far more successful.
- 'Knowing' number bonds means a child will be able to recall any of the facts out of order within a few seconds, as well as knowing the matching subtractions fact. i.e. $3+17 = 20$ but $20-17=3$ and $20-3 = 17$.
- **Learning number facts are most effective when there is collaboration with school, parents and children.** In school we regularly spend time learning number bonds, but a child will be much more successful if they practise outside school, independently and alongside parents.

A successful learner works collaboratively.



Number Bond Expectations For Your Child

Below are the expectations outlined within the national curriculum.

Reception: Automatically recall number bonds for numbers 0–10.

This is not just two numbers that add to make ten but within 10 also. It is important to know the number bonds to 10 but also to 9, 8 etc.

For example:

- Knowing that the number 5 has the number bonds: $0 + 5$, $1 + 4$, $2 + 3$
- Knowing that the number 8 has the number bonds: $1 + 7$, $2 + 6$, $3 + 5$, $4 + 4$

Year 1: Represent and use number bonds and related subtraction facts within 20.

Again, this isn't just two number that add to make 20 but within 20. For example:

- Knowing that 12 has the number bonds: $0 + 12$, $1 + 11$, $2 + 10$, $3 + 9$, $4 + 8$, $5 + 7$, $6 + 6$.

All facts must include the subtraction facts also.

Key Vocabulary

Here are some words that may be used whilst learning and applying multiplication and division.

Addition	Add	All together	sum	increase	More than	Total	operation
Subtraction	Subtract	Minus	Take-away	decrease	Less than	Difference	inverse

Here are some of the trickier words defined:

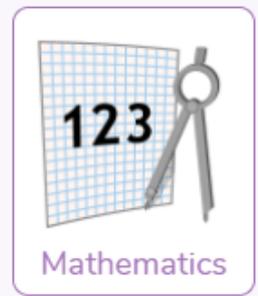
Operation- addition, subtraction, multiplication and division are all operations that are represented by symbols.

Inverse – Opposite operation- for example addition is the opposite to subtraction and multiplication is the opposite to division. I.e. $3 + 4 = 7$ so we also know that $7 - 4 = 3$ and $7 - 3 = 4$.

Regular revision

The Key to learning number bonds is frequent repetition, regular revision. 5 to 10 minutes every day is better than an hour a week. A poster on the wall that is not used is simply wall paper. Here are some ideas to help your child memorise their addition and subtraction facts.

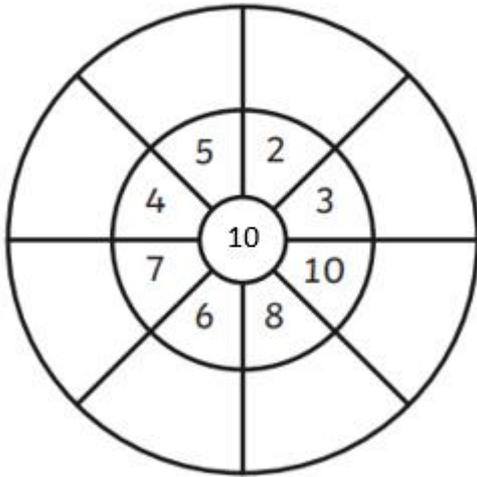
- 1) **Chanting** – Have your child chant out the number bonds for example '2 add 8 equals 10, 3 add 7 equals 10....
Have fun with it! See if they can do it in different voices like a robot, a parrot or a silly voice. Can they shout it out loud, can they whisper it?
- 2) **Flash cards**- Create flash cards to help your child. You could select certain facts they keep getting stuck on rather than the whole set.
- 3) **Timed** – Time your child and make it into a competition. Can they beat their last score? Put the timer on for 30 seconds and see how many they can answer.
<https://www.online-stopwatch.com/>
- 4) Purple Mash also has great interactive games for number bonds.



- 5) **Bingo**- Create a 2 x 3 grid (6 boxes) and have the children write any numbers under 10 or 20. Write number bond questions on slips of paper and put into a bowl. Take it in turns pulling out a question and if you have the answer then cross it off. The first to cross out all their numbers win!

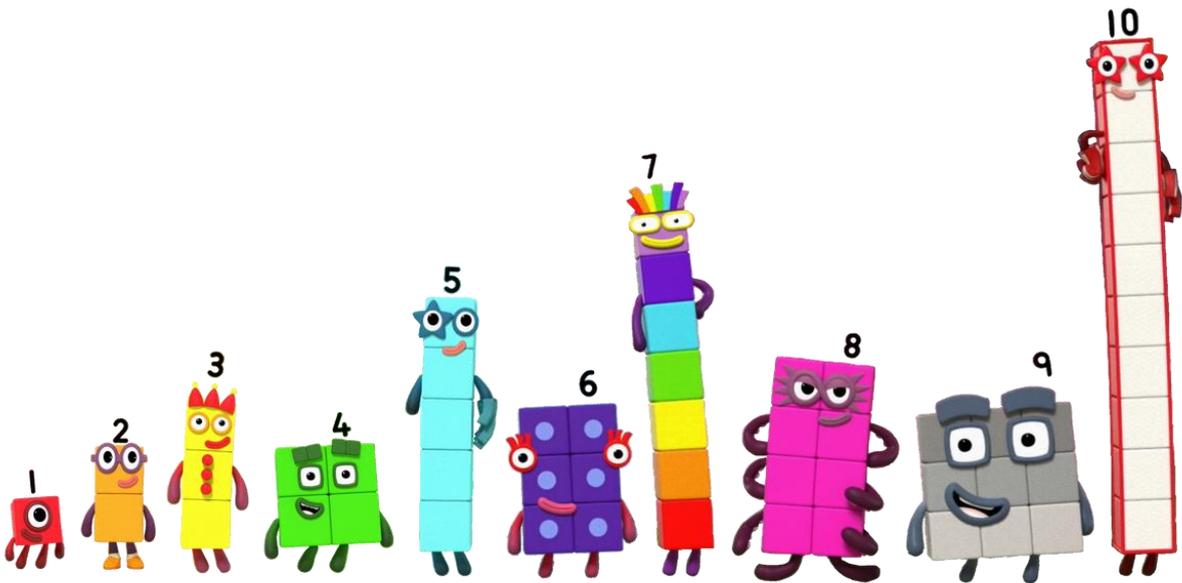


- 6) **Number wheel-** Create a number wheel like the one below and see how quickly the can fill it in. To make it a fun challenge, mix up the numbers 1-12 in yellow.



- 7) **Number blocks:**

<https://www.bbc.co.uk/cbeebies/shows/numberblocks>



- 8) **Online resources-**

[Hit the Button - Quick fire maths practise for 6-11 year olds \(topmarks.co.uk\)](https://www.topmarks.co.uk)

<https://www.topmarks.co.uk/Search.aspx?q=number%20bonds%20to%2020>

https://www.mathplayground.com/number_bonds_20.html

- 9) **Quick question anywhere-**

Fire questions at your children anywhere and everywhere! Take them by surprise and see how quickly they can respond.