

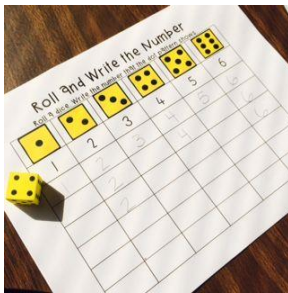
Number formation activities

Writing in sand

Learning number formation can be fun and exciting. As well as practising using pen and paper it is also fun to practise writing them in salt, sand or flour. Start by watching how your child forms their numerals and focus on correction (please look for the number formation rhymes document). Within this you can practise **counting** and using **place value**, by writing 2 digit numbers while making sure the formation is correct.



Roll and write



This activity covers simple counting, number formation and even addition. Using 1 die roll, count the dots and write the number with the correct formation. Using two dice, your child can practise **number bonds** by counting the dots and just writing the total or writing the number sentence too.

Squishy bag numbers

Squishy bags are a great way to target writing skills without using paper and pencils (please the link below of how to make a squishy bag). It provides a fun and exciting way to invite children to practice forming numbers but can also be used to practise writing letters, their name, drawing pictures, shapes and words.

<https://www.learning4kids.net/2015/06/30/how-to-make-squishy-sensory-bags/>

<https://www.pinterest.co.uk/pin/44543483806162505/>



Deck of cards

A simple deck of cards is a great resource as children usually associate cards with playing. So slip some maths into simple games!

Number recognition

Place the cards 1-10 face up and ask your child to find a number, they can then count the symbols in the middle of the card to check and reinforce their counting.



Doubles

The idea above could also be played with 2 suits from 1-10 finding pairs and working out doubles. Place the cards 1-10 face down, from two different suits. Ask your child to find pairs and then work out what double of each number would be. '2 + 2 is 4 so double 2 is 4'.

Number bonds - Addition

Place the cards 1-10 face down, from two different suits. Pick two numbers and add them together. Count the symbols in the middle of the card to help and say each number sentence out loud before writing it down. To challenge your child, they could write the other number facts which they know, we call these fact families.

e.g. $6 + 5 = 11$ $5 + 6 = 11$ $11 - 6 = 5$ $11 - 5 = 6$

Number bonds - Subtraction

Practise subtraction by placing the largest number (the whole amount) to start the number sentence or staring at a chosen number (10 to practise bonds within 10, 20 for bonds within 20). As above you can challenge you child by writing fact families.

Number bonds - Go fish making 10

In this version, instead of finding matching pairs, children are fishing for pairs of numbers which add up to 10 (9+1, 8+2 etc). Have them ask: "I have a 2. Do you have an 8 to make 10?" Change aces to 1 for this game and leave face cards out entirely. Please see the video link for the rules to the original game. <https://www.youtube.com/watch?v=hRpXLSMdve0> Remember instead of hunting for 4 of a kind, children are hunting for number bonds.

Place value fun

Place the cards 1-10 face down. Pick some cards and then make the largest or the smallest number from the chosen digits. 2 cards for 2 digit numbers, 3 cards for 3 digit numbers etc.

It is important for your child to;

- 1- Say the number - 37
- 2- Discuss the place value - There are 3 tens and 7 ones in the number 37.

Number generator

Use the playing cards as a random number generator and then choose a mathematical operation for the children to use +, -, x, ÷ to solve problems of their choice.

One More One Less:

There are a few versions of this basic addition and subtraction game. Remove the face cards from the deck. Flip a card. If it's red, add one and say the amount out loud. If it's black, subtract one. Get it right? You get to keep the card! To extend your child try 2 more or 2 less, 3 more or 3 less.

I Spy: Lay out the 1-10 cards on the table, then take turns giving clues. Differentiate your questions to challenge your child appropriately. Below are some ideas of good mathematical language to use.

Greater than, more than, bigger than >

"...a number greater than 3"

Less than, smaller than <

"...a number less than 3 + 4"

Equal to, the same as =, total, sum

"...a two cards that are the same as 12"

Hundreds, tens, ones

"...the number of tens in 65"

Subtract/minus/take away

"...a number the I take away from 10 to make 2."

Multiply/times tables

"... the number I multiply 5 times to make 10"

Multiplication activities



Multiplication flower:

This is a creative way to teach multiplication facts. Start by drawing the centre of a flower and writing your chosen multiple. Next, draw 12 petals around the centre, labelling them 1-12. Last, draw another 12 petals and write the product of the centre number and the petal adjacent to the new petal. (Draw 13 petals to include 0 x multiple)

Multiplication cards:

Make multiplication cards. On one side write the number sentence, on the other write answer. Place them with the number sentence showing to work out the whole amount/total or as an extra challenge show the whole amount to find the multiplication number sentence.

1×5	5
2×5	10
3×5	15



Multiplication plate:

Use 2 paper plates to make a multiplication plate. Cut the top plate making 13 different sections (from 0x5 to 12x5) then stick it on top of the other plate. Once secure, write the multiplication number sentences (1x5) then pull back the tab and write the solution underneath.

Maths Videos

Please see the link below for some extra videos with practical activities using manipulatives.

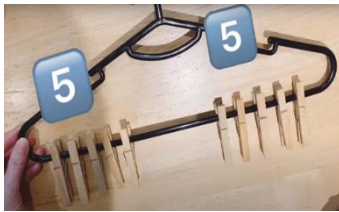
https://www.youtube.com/channel/UCAN_LDt_5rOostK1bjFQ8Ew

- Fact families (multiplication and division)
- Number bonds to 10
- Fact Families (addition and subtraction)
- Addition with dienes
- Addition in a ten frame

<https://www.farnhamcommonvillageschools.co.uk/mathematics-1/>

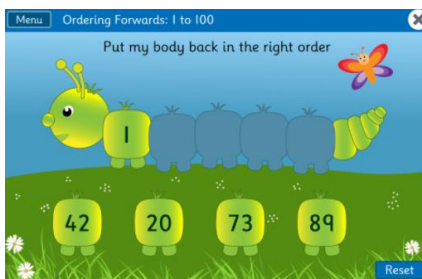
- Part whole models
- Arrays for multiplication

<https://www.youtube.com/watch?v=63xaq5ubWxY>



Number bonds with hangers and pegs.

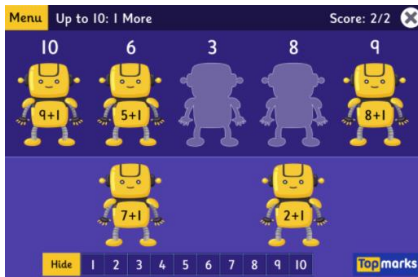
Online maths games



Caterpillar ordering

<https://www.topmarks.co.uk/ordering-and-sequencing/caterpillar-ordering>

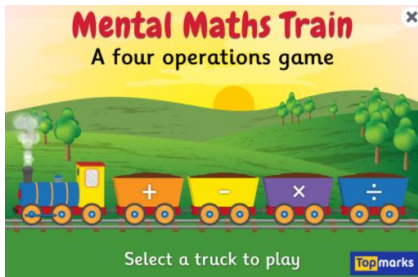
Caterpillar Ordering is an interactive ordering and sequencing numbers game which is great to reinforce **place value**. This game has different levels which can be matched to mathematical ability level.



Robot more or less

<https://www.topmarks.co.uk/maths-games/robot-more-or-less>

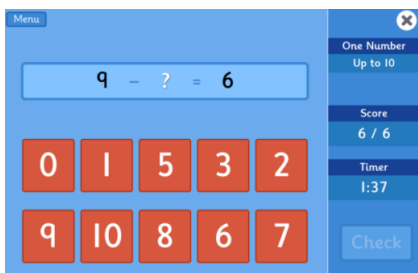
Practise this **adding** or **subtracting** matching game which is useful for developing mental maths skills.



Mental maths train

<https://www.topmarks.co.uk/maths-games/mental-maths-train>

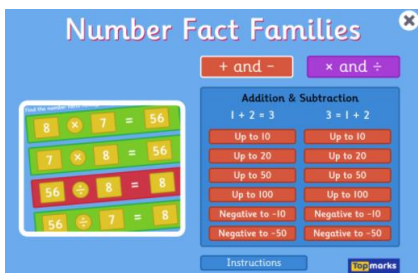
Mental Maths Train is a maths game which focuses on the essential vocabulary of **addition**, **subtraction**, **multiplication** and **division**.



Subtracting grids

<https://www.topmarks.co.uk/maths-games/subtraction-grids>

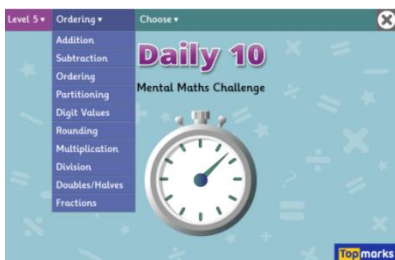
Subtraction Grids is a mental maths game involving subtraction skills. It has two playing modes, where players need to select either one digit or two digit numbers to complete the **subtraction** calculation with **missing numbers**.



Fact families

<https://www.topmarks.co.uk/number-facts/number-fact-families>

Number Fact Families is a maths game where you need to work out the collection of related **addition and subtraction** or **multiplication and division** family of facts, using the relationship of 3 randomised numbers.



Daily 10

<https://www.topmarks.co.uk/maths-games/daily10>

Daily 10 is a primary maths resource which covers addition, subtraction, ordering, partitioning, digit values (place value), rounding, multiplication, division, doubles, halves and fractions. Timed or untimed children can answer questions and check their answers when revealed at the end



BBC Bitesize - Karate Cats Maths

In this game the elite team of Karate Cats have completed their training and are now competing to be maths champions! Join them and earn the bronze, silver and gold cups in;

- Addition and subtraction
- Multiplication and division
- Number and place value
- Fractions
- Measurement
- Shapes
- Position and direction
- Statistics



BBC Bitesize - Bud's Number Garden

With this game, children will be able to join Bud the bee, explore his magical garden and practise recognising numbers, counting, sequencing and much more!