



Social



Communication



Interaction



Learning



# Maths Small Group – New Learning

## Introducing Numbers

### Examples of Activities to Introduce a Number (using 5 as an example)

- Pull the number from the arc – allow each pupil to trace the shape of the number with their fingers.
- Introduce the dot pattern – show the dice.
- Allow each pupil to make the dot pattern using glass nuggets – counting as placing the nuggets into the shape.
- Go on a number walk around school looking for the number 5 and examples of 5 – take photos.
- Explore 5 – 5 fingers, 5 toes, high 5, 5p
- Sort counting objects into groups of 5.
- Do 5 jumps, claps, star jumps etc.
- Number formation activities – make sure you make it multisensory.
- Make a tactile number card for each number as you introduce it– see examples below.



### Make a poster for each number as a visual representation / memory aid

As a group make a poster for each number or each child could make their own. Below are a number of ideas to include:

- Make a tactile representation of the numeral e.g. use a pipecleaner, make the shape with glue and sprinkle over sand / glitter, cut the number out of sandpaper or textured wallpaper and stick in.
- Make the dot pattern for the number using circles of felt / foam, pompoms or stick on Velcro dots.
- Stick in photos you have taken or pictures to illustrate such as 5 fingers, a 5p etc.
- Draw around the pupils fingers to show the corresponding number of fingers.
- Draw around the numicon shape or Cuisenaire rod and colour in the appropriate colour.
- Leave a space on the poster to add in the numberbonds once introduced.



## Number bonds

Explore the number bonds for each number introduced using the following activities – see [addition and subtraction sheet](#) for more ideas:

- Make the dot pattern for the target number using two coloured counters. Explore the different ways of making the number by turning counters e.g. for 5 – start by exploring the fact that 5 is 5 ones. Turn one counter over you would have one green and four blues – emphasise that 1 and 4 is 5 etc. Get them to see how many ways they can make the number 5.
- Continue by exploring the number bonds of the target number using other manipulatives such as numicon or Cuisenaire rods.
- Introduce a tens frame to illustrate the numbers and two colour counters to illustrate the numberbonds.
- If the group are ready use the +, - and = signs when exploring number bonds e.g.  $3 + 2 = 5$  and  $5 - 2 = 3$ . Always start with the addition facts and once these are secure introduce the subtraction facts – linking them together.
- Add the number bond facts to the poster for that number.
- Support the development of addition and subtraction fluency with key facts by including activities to answer mixed up addition and subtraction questions for each number bond.

## Games

- Pairs Games – number to number, dot pattern or subitising pictures or number to quantity or matching the number bonds – the options are endless!
- Rattuki, Tiny Polka Dots
- Bingo – Supplied for Numberbonds for 10
- Fly swatter game. Spread out one set of the numbers and as you say one the pupil swats the number bond with the fly swatter. For the bonds to 5 if the adult says 3 the pupil will swat 2.
- Connect 4 – Supplied for Numberbonds for 10
- Number Search – Supplied for Numberbonds for 10