



Social



Communication



Interaction



Learning



20-20 Maths – New Learning

Introducing Numbers

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

- Pull the number from the arc – trace the shape with your finger.
- Introduce the dot pattern – show the dice.
- 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 – see examples below.



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

In this section your pupil will start to develop a page which will be put in a ring binder. Use A4 card for each page. Below are a number of ideas:

- 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 and Cuisenaire rods.
- If the pupil is 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