

Numbers and Shape, space and measure.

Our mathematics curriculum at Cranmer Preschool is split into two categories; numbers and shape, space and measure.

Mathematics will be taught in a purposeful, practical way in our enabling environment where children will use play and exploration to acquire mathematical skills and concepts. The large majority of mathematical activities are practical, learning will occur in many different contexts around our environment, inside and outside.

Some play exploring mathematical concepts will be practitioner led with resources set up to provoke learning other experiences will be encouraged and expanded by practitioner's interactions with the children.

Cranmer preschool hopes this information will guide you to support your child's learning and development. Many of the activities suggested are carried out at Cranmer preschool as part of our daily routine.

Early learning goals.

- Children can count reliably with numbers from 1-20, place them in order and say which number is one more or one less than a number given. Using quantities and objects, they add and subtract two single digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.
- Children talk about everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects to solve problems. They recognise, create and describe patterns. They explore characteristics of everyday objects and shapes and use mathematical language to describe them.

How you can help them learn at home.

Numbers

- Singing songs that take away or add objects e.g. 10 green bottles, 5 currant buns.
- Exploit all counting opportunities e.g. counting stairs, buttons, lamp posts on a walk, count red cars on a journey.
- Games such as snakes and ladders and skittles help with counting and mathematical strategies.
- Throwing beanbags/balls at numbered targets and recording scores, adding up scores.
- Look for numbers in the environment, car registration number plates, house numbers and signs.
- Ask questions using mathematical language e.g. "please give me two cars", "please can I have one more", "how many cars do you have?"

- Talk about mathematical concepts e.g. full/empty, height, weight, length, adding, taking away, quantities.

Shape, space and measure.

- Looking for and name shapes at home and in the environment.
- Talk about shapes you see in everyday objects.
- Make pictures with different shapes.
- Involve children in cooking. Look at numbers on the scales and measuring jugs.
- Measure and compare feet sizes and height of family members.
- Shopping activities, real or pretend, use real money to help identify coins and weight.
- Talk about shape, textures, size and colour of objects when playing.
- Jigsaws – fitting shapes into spaces.
- Play games using positional language.
- Talk about symmetry and patterns in nature and man made objects.
- Talk about what time it is, “we will go to the cinema at 4 O’clock.