Mathematics at Charing

At Charing, we teach mathematics daily as a discrete subject in order to teach children the skills and develop their understanding. Children who are confident with maths are able to apply their learning across the curriculum.

In order to develop confident mathematicians, we support their understanding through the use of practical resources (concrete), written and drawn representations of the calculations (pictorial) before moving on to more formal written methods (abstract). Problem solving and reasoning are developed alongside these processes.

We teach to the National Curriculum programme of study and teachers plan using the objectives identified for each year group. Children's progress is assessed and planning adapted to meet the needs of the children.

Number Bonds

In order to become proficient in basic calculations, children need to have a sound grasp of number bonds (e.g. pairs of numbers that make 10: 3 + 7 = 10) and be able to use and apply them quickly.

Number bonds are practised and reinforced daily and we have a reward system to recognise increasing proficiency. 'Number Ladders' awards increase in difficulty from Step 1 through to Step 12. The children work towards proficiency at each step and receive a certificate in Celebration Worship.

Times Tables

Knowing times tables and being able to use them to derive associated facts (e.g. if 3 x 4 = 12, then 30 x 4 = 120) efficiently and speedily is a key mathematics skill. If children are confident in the recall of the tables facts, then they can apply them quickly and accurately in a range of contexts and problem solving situations.

In years 2 to 6, children practise their tables daily in class and work through the increasingly challenging levels of the Times Tables Awards scheme.

Times Tables Awards Scheme:

Jade 1 – 2x table	Jade 2 – 10x table
Jade 3 – 5x table	Ruby – 2x and 10x tables
Topaz – 2x and 5x tables	Sapphire – 2x, 5x and 10x tables
Crystal – 2, 3, 4 and 5x tables	Emerald – 2, 3, 4, 5, 6, 7 and 8x tables

Diamond – all tables up to 12 x 12 as multiplication and division (50 questions)

Bronze - all tables up to 12 x 12 as multiplication and division (100 questions) in 8 mins

Silver - all tables up to 12 x 12 as multiplication and division (100 questions) in 5 mins

Gold – up to 12 x 12 – 100 division questions

Platinum 1 – up to 12 x 12 – 100 division questions with remainders in 5 minutes

Platinum 2 - up to 12 x 12 – 100 division questions with remainders in 4 minutes

For those children who achieve these steps, there are further levels that involve deriving associated facts.

Please support your child with their number bonds and times tables by practising every day.