**MATHEMATICS**

Mathematics is essential to everyday life, critical to science, technology and engineering, and necessary in most forms of employment. It is a powerful subject and it should be fun and enjoyable for everyone. It is an essential life skill and it is for this reason that Mathematics plays a vital part of the curriculum at Roose Primary School. Mathematics provides a way of viewing and making sense of the world. It is used to communicate and analyse information and ideas to tackle a range of practical tasks and real life problems. At Roose, Maths is taught through a daily lesson using a variety of teaching and learning strategies, one of which is ‘Big Maths’ which encourages the children to develop an excellent understanding of all aspects of number.

**Aims:**

The national curriculum for mathematics aims to ensure that all pupils:

* become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
* reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
* can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

**At Roose School we also aim to:**

* follow a core curriculum format, returning to each topic with increasing depth and ensuring that every mathematical concept is introduced, reinforced, mastered, consolidated and extended through further investigation.
* understand that mathematics is an essential part of communication and to give children opportunities to describe, predict, interpret, demonstrate and explain using mathematical language and conventions.
* ensure all children experience appropriate practical and investigative problem solving activities, presented in both oral and written form.
* encourage children to learn number bonds and times tables and become confident in developing their own mental mathematics strategies
* encourage all children to have an eager and positive attitude towards mathematics and to develop their curiosity.