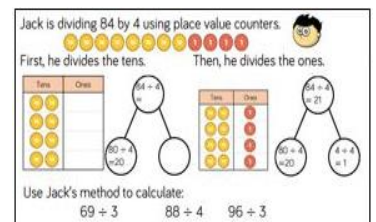# Mathematics

Intent Statement

What is the intent of the Maths curriculum at Sir Alexander Fleming Primary School?

Our long-term aim is to produce an ambitious, connected curriculum accessible to all pupils from Reception to the end of Year 6. We aim to develop pupils into mathematical thinkers. We want pupils to enjoy opportunities to become fluent in the fundamentals of mathematics, to be able to reason and to solve problems. It is our ambition to make substantial links between mathematical understanding and the real world, using mathematical language in a cross-curricular manner, supporting pupils to articulate their knowledge and learning.

Our curriculum embraces these National Curriculum aims, and provides guidance to help pupils to become confident and resilient:


Visualisers – we use the Concrete – Pictorial – Abstract (CPA) approach to help pupils understand mathematics and to make connections between different representations (models, images and graphics).

Describers – we place great emphasis on mathematical language and questioning so pupils can discuss the mathematics they are doing, and so support them to take ideas further.
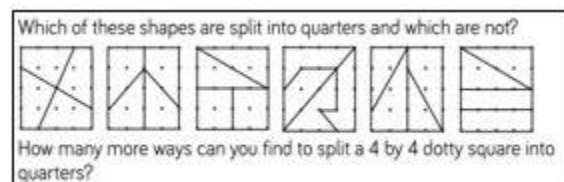
Experimenters – as well as being fluent mathematicians, we want pupils to love and learn more about mathematics.
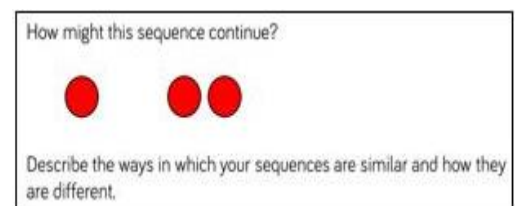
Progression through the mathematics curriculum:

To learn mathematics effectively, some things have to be learned before others, e.g. place value needs to be understood before working with addition and subtraction, addition needs to be learnt before looking at multiplication (as a model of repeated addition). We place a significant emphasis on number skills, carefully ordered, throughout our primary curriculum. For some other topics, the order is not as crucial, e.g. Shapes and Statistics need to come after number, but do not depend on each other. We mix these so pupils have as wide a variety of mathematical experiences as possible in each term and year.

Claire Killick
Mathematics Lead