

Maths Guidance - Alma Park 2014

At Alma Park we aim to create confident mathematicians; teaching mathematical skills and concepts in a challenging and exciting way.

Aims of the National Curriculum (2014):

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 have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems

- 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

[National Curriculum 2014 - Maths full document](#)

How is maths taught at Alma Park?

Learning maths is made colourful, practical, and visual to allow all our children to succeed. Using a wide variety of apparatus to encourage hands on learning, provides all children with a concrete experience of mathematics. This enables them to move toward more abstract ideas when they are ready. Numicon is implemented into our teaching methods to provide children with an understanding as to the size of numbers early on, they continue to use this as they progress through school. [Find out more about Numicon here](#) or come and ask in school, we will be happy to show and tell you more.

Teachers at Alma Park use Lancashire Medium Term Planning to ensure coverage of the new curriculum. Teachers take ownership of the objectives taught during a half term, which is led and driven by the needs of the children. This ensures all children are taught the next steps in their learning, allowing them to make progress. Teachers reflect on the learning and teaching which has taken place. This informs future teaching alongside assessments, in order to adapt to the needs of their children.

The National Curriculum 2014, requires the learning objectives from each year group to be covered and mastered before a child is extended with further learning. Teachers at Alma Park creatively use the structure of their lesson to allow practise and consolidation of learning so they become 'fluent', particularly with number work being taught every day. Teachers provide problem solving activities to enrich, embed and extend children's mathematical ability. Frequently using the NRIC website for ideas and inspiration in making maths 'real'.