School-wide approaches to Mathematical Skills Development

High competency in mathematical skills is key to students' success, both in subjects where these skills are embedded within the curriculum and beyond school. At Admiral Lord Nelson School, we are committed to raising the standard of mathematical skills for all of our students. We want our students to be confident and capable in the use of mathematical skills to support their learning in all areas of the curriculum as well as acquire the necessary skills to help achieve success in further education, employment and adult life.

Mathematical skills are a proficiency which are developed mainly in Mathematics but also in other subjects. It is more than an ability to do basic arithmetic. It involves developing confidence and competence with numbers and measures. It requires understanding of the number system, a repertoire of mathematical techniques, and an inclination and ability to solve quantitative or spatial problems in a range of contexts. The strands of graphical representation and interpretation, averages, percentages and fractions, estimation and rounding, ratio, and sampling methods are interwoven across curriculum areas where these skills support the learning in these curriculums.

Curriculum Mapping

Subject areas work collaboratively to support the development of mathematical skills. These skills are sequenced appropriately in the Mathematics curriculum to support the application of these skills within the relevant curriculum areas.

To ensure that we are teaching topics in an order that helps to support other subjects with their delivery of mathematical skills, we have mapped these across Geography, Science, Psychology, Design and Physical Education (see appendix 2). Common approaches to the teaching of mathematical skills are shared across the curriculum areas to ensure consistent methods support student learning.