

North Durham Academy – Maths Curriculum

SUBJECT INTENT STATEMENT

We **use** Mathematics as a tool to make sense of the world around us. We **need** mathematics to help us put events and trends into perspective, to look rationally and reasonably at aspects of these events that may not appear on the surface. Mathematics **helps** us go deeper.

-Paul Reimer, Fresno Pacific University.

We believe that every child has the capability to learn mathematics and become fluent in skills, be able to reason mathematically and become problem solvers. We believe mathematics is an important skill for everyone's walk of life regardless of whether they become a hairdresser, a plumber, a stay-at-home parent, a teacher or anything they desire. Our curriculum builds mathematical fluency through carefully sequenced and engaging lessons where students are rewarded frequently for their efforts. Our curriculum builds mathematical reasoning by developing student's oracy and written communication as we believe that students should act, think and communicate like mathematicians. We endeavour to incorporate problem solving, in a variety of different forms so that students are stretched through increasingly sophisticated problems.

We want students to understand that Mathematics is an interconnected subject, therefore, our curriculum interleaves so that all students can move fluently between core mathematical ideas.

We teach students mathematics by carefully tailoring our lessons to the needs of our students so that all can access the curriculum.

This will lead to all students at NDA experiencing success in mathematics.