

## **Maths: Curriculum Rationale and Statement of Intent**

The maths curriculum at TOAN is designed to allow students to develop their knowledge base and apply prior knowledge to increasingly more challenging problems overtime. Students will be able to fluently reason mathematically by following a line of enquiry, conjecturing relationships, and generalisations, and developing an argument, justification or proof using mathematical vocabulary.

Our curriculum is a spiral model which is broad and balanced. The curriculum is designed to allow students to reminded rather than retaught, to ensure they are able to build, embed and transfer a bank of knowledge and skills to their long term memory which will allow competency in numeracy and maths. Through intelligent practice students will develop conceptual understanding of topics and be able to break down problems into a series of simpler steps.

Each element of the curriculum has been carefully considered with the introduction of new content positioned to ensure students already have the prior knowledge needed to build upon. To assess with purpose, we maintain a balance of low stakes, formative and summative assessments enabling regular personalised feedback to maximise progress and reflection in our students.

Maths will foster a love for maths, and ensure students leave TOAN with an inquisitive mind. Our curriculum will support student's cultural capital so that they are equipped for the competitive world they live within, able to make a positive contribution to their own communities.