




Mathematics Department - Curriculum Intent

The intent of the Mathematics department at Caistor Yarborough Academy is to ensure that we prepare our students to be the best Mathematicians possible, and equip them with the skills needed to progress to their next stage of education. Whether that is to go onto A Level Mathematics, or give them the skills to deal with everyday Mathematics, such as calculating their wages or discounts in shops. Through the mathematics lessons, we also encourage the students to be critical thinkers, problem solvers and good communicators.

 <p>Globally Aware</p> <p>“How is this helping me understand the world around me and how it is changing?”</p>	<p>As part of the Maths curriculum at Caistor Yarborough Academy, we strive to ensure that our students are globally aware. We link the Maths to its application in real-life, ensuring that students realise that the skills are used every day. Maths is the universal language, with the skills and knowledge that is imparted, we enable our students to converse with all communities around the world, whether it be in commerce, through understanding formulae leading onto computer development or on vacation; with lessons on exchange rates, percentages, ratio and proportion, compound interest, bearings, algebra and many more.</p>
 <p>Culturally Aware</p> <p>“How is this helping me understand other cultures and my locality?”</p>	<p>We believe that our students should understand their own environment, Lincolnshire has a wealth of agricultural, healthcare and engineering industries to name a few. To guarantee that our students are able to fulfil their ambitions, we link the skills across the curriculum, especially with STEM subjects.</p>
 <p>Self-Aware</p> <p>“How is this helping me understand my emotions, my body, my actions?”</p>	<p>We show that hard work, resilience and determination pay off, we empower our students to be the best and to develop their understanding of Maths. If our students struggle with misunderstandings and misconceptions, they are given the skills and encouraged to be resilient to overcome these difficulties with each lesson being differentiated and appropriately challenging. We believe that all students should reach their Mathematical potential, whether this is to be able to understand everyday basics, such as dealing with money, reading scales and using Maths for everyday skills, or whether it is to inspire and challenge the students to pursue Mathematics and related subjects at a higher level.</p>



Ambitious and work ready

“How is this preparing me for the next stage of my life?”

Within the department, when topics are taught we share the relevance of the topics so that students understand the use of the skills in life beyond school. Mathematical skills are linked to future careers, or everyday life needs. We believe that students should be able to read and understand the Mathematics problems that they face, so encourage the use of Key words, throughout the lessons, and integrate worded questions into our teaching. We work closely with the Science department to provide the key Mathematical skills that are needed to ensure success and entry in to jobs involving Physics, Chemistry and Biology. Throughout the year, we plan trips that enhance the students understanding of Mathematics in the work place, (EG Amazon distribution centre tour). The Mathematics department run competitions and challenges to encourage students to ‘take their Maths further’. Through the teaching of Mathematics, we challenge the students allowing them to develop problem solving skills and show resilience we aim to produce not only competent Mathematicians, but also successful and rounded individuals, prepared, equipped and enthusiastic for the next stage of their lives.