



MATHS FACULTY STATEMENT 2017-18

"Pure mathematics is, in its way the poetry of logical ideas" Albert Einstein

HEAD OF FACULTY: J. Nundu

AIM

Our aim as a mathematics department is to make maths more enjoyable and easy to understand. We also aim to enhance and maintain pupils' confidence and competency in maths. Since mathematics is connected to other subjects, we have built our numeracy policy in such a way that it enables pupils to apply their mathematical knowledge in Science, Geography, Design and Technology and other subjects.

KEY STAGE 3

Our KS3 mathematics is built on national Curriculum but also take into consideration the contents covered at KS2 and relating them to content at KS3 to allow smooth transition from KS2 to secondary school maths, our aims at KS3 includes enhancement and development of pupils' reasoning in a logical manner. We do this by incorporating investigative problems, conjecturing relationships and mathematical proof into various domains of KS3 maths.

KEY STAGE 4

Like KS3, our KS4 is based on the Edexcel syllabus national curriculum and aims to ensure that every pupil understands and is able to apply the fundamentals of mathematics. This is then enhanced to enable pupils to solve more complex problems over time. Our curriculum also aims to develop conceptual understanding and pupils' ability to recall and apply them accurately. At KS4 we pride ourselves on our pupils' ability to solve mathematical problems and applying their mathematical knowledge to various routine and non-routine problems with a fair degree of sophistication which includes breaking down problems into simple steps until a solution is found. Investigative projects in maths are highly valued and encouraged as this connects maths to real life situations.

KEY STAGE 5

The faculty offers the Edexcel syllabus at A level. In Y12 students follow the AS course which covers topics such as differentiation, complex surds, simple integration and trigonometric identities, with this culminating in an external exam. In Y13 they study further units that lead to one major exam to make up the complete A level course. For Year 13 students study further trigonometric identities, more complex differentiation such as differentiating trigonometrics, natural logs and exponential among others. Integration and differentiation are major components of A-level and is taught as per requirement of the syllabus based on national curriculum.

City Academy Curriculum vision

"Our vision is to inspire and challenge our students to excel in their curriculum pathway, make progress regardless of their starting point and become masters of their learning craft"