### Bacon’s College

#### Mathematics Curriculum Area

The Mathematics department comprises a well-resourced, creative and successful team that plays a key role in College life. Our aim is to create an atmosphere in which students are inspired to actively participate in the learning process and where colleagues enjoy teaching, so that students give their very best in order to achieve both personal and academic success.

We aim to develop students’ levels of numeracy, enabling them to deal with the everyday use of numbers they will encounter after leaving education. We aim to encourage our students to understand how mathematical skills can be applied in real world situations to gain a greater understanding of how the world works. We strive to ensure that our students leave us with a deep conceptual understanding of Mathematics and can reason and problem solve confidently

**Key Departmental Developments**

* To ensure progression through assessment and tracking
* To review and evaluate schemes of work and teaching strategies, across each key stage.
* To improve the attainment of the most able students in the college
* To continue to develop higher level thinking skills

### Within the Mathematics curriculum area we are keen for students and parents to view their Mathematical learning as a five or seven year journey.

In Years 7 and 8 our schemes of work have been developed to support the new National Curriculum. Students are empowered to investigate and draw conclusions for themselves through ‘Mastery’ style lessons. We are committed to improving standards through effective assessment of student progress and the resulting curricular and individual targets that this process establishes.

Students are initially taught in mixed ability groups in Year 7, they are then set by ability after October half term. Students receive 4 lessons of Maths per week in Years 7 and 8.

Students in Years 9,10 and 11 are prepared for the new GCSE specification. We have spent a lot of time developing our Schemes of Work so that we provide the best possible opportunity for achievement in the terminal examinations. There is an opportunity for the more able mathematicians to sit OCR Free Standing Mathematics Qualification in KS4. Studying for this qualification will particularly benefit those wishing to undertake further mathematics at A level.

##### Sixth Form

Our curriculum at Key Stage 5 continues to go from strength to strength and offers a range of teaching and learning opportunities. The many students who choose to remain with us are joined by students from other schools. Mathematics is the most popular choice at A level with over 50 students in the current Y12.

Students can choose to study Mathematics and/or Further Mathematics.

**Staffing and Organisation**

There are currently 11 full-time members of staff, one part-time and one intervention leader in the department, many of whom have additional designated responsibilities. The Second in Department is responsible for Years 7 and 8 as well as developing teaching and learning within the department. In addition, there is a Key Stage 4 Co-ordinator, Key Stage 5 Maths Co-ordinator, a Numeracy Co-ordinator and a Gifted and Talented Co-ordinator.

The department meet once a week to share good practice and discuss how to improve assessment and standards. Staff are encouraged to attend training courses to match their areas of responsibility and professional development targets.

**Facilities and Resources**

The department is very well resourced with access to text books for each pupil, a lap safe and graphical calculators. There is also a maths teaching room, which has its own set of 30 laptops. We have many online resources available to staff to use in their lessons. Students are also able to work independently at home using these resources. There are eight maths teaching rooms in total, all with IWBs, and preparation areas for teachers. The department’s annual budget is generous and the College is well resourced in terms of support services.