## The Mathematics Department

Mathematics is taught by a team of 9 full time and 3 part time teachers who work closely together. Most members of the department teach across the full age and ability range.

The Mathematics department is based in 8 classrooms. Each mathematics room has an Interactive Whiteboard and a supply of equipment, including mini whiteboards and pens.

## Grouping of Pupils

Years 7 to 11 are taught in half year blocks and they are set within these blocks. Students are moved between sets appropriately, according to their progress and balancing set numbers. Classroom support for some low attaining students is provided by a team of experienced Teacher Assistants.

## Resources

At Key Stage 3 the scheme of work is split into emerging, developing, secured and mastered topics. At Key Stage 4 there is a Foundation and a Higher tier scheme of work. Therefore, classwork can be differentiated according to the ability of each group but gives the scope for all students to be fully challenged. This is regularly updated to ensure it is preparing students for the challenges of the new GCSE.

The scheme of work is divided into blocks of work. For each block of work, the scheme suggests suitable tasks and objectives for students to demonstrate their ability to use and apply mathematics. Extension activities and homework suggestions are also included within this. At the end of each block of work the students sit an assessment to track their progress and ensure interventions can be put in place.

All KS3 and KS4 students have a login to the website Maths Watch. KS4 students also have access to an online edition of a newly updated GCSE (9-1) textbook. Class sets of the Key Stage 3 STP Mathematics textbooks and the new EdExcel GCSE (9-1) textbooks are available for use in lessons if required.

## Teaching Strategies

At Coombe Girls' Maths Department, we strive ourselves in delivering outstanding lessons which inspire our students to feel confident in Mathematics and to want to succeed. Assessment for learning is used effectively in all lessons, allowing teachers to make informed decisions as to a student's progress and differentiate accordingly. The pace of the learning that occurs throughout our lessons empowers students to challenge themselves, and facilitates an atmosphere in which students can remain engaged and enthusiastic. A variety of teaching and learning strategies is encouraged, and it is expected that each member of the department evolves styles which they find most effective for the parts of the course they are addressing. Dissemination of good practice is always encouraged within our team.

## Year 11

Year 11 are currently entered for the new Edexcel (9-1) GCSE. Groups of more able students will also be given the opportunity to enter for the Edexcel GCSE Statistics qualification. The OCR Additional Mathematics qualification is offered to some as extra-curricular opportunity.
Our Year 11 results are extremely strong, with the department achieving a Progress 8 score of +0.85 in the summer 2017 results, with $75 \%$ of students achieving the new demanding grade 5 .

## Years 12 and 13

Due to the changes to the new A Level course, from September 2017 students will opt for a 2 year linear A Level in both Mathematics and/or Further Mathematics. The exam board we are studying is EdExcel.

On the new linear course the students will sit 3 exams for A Level Mathematics: Pure Mathematics 1, Pure Mathematics 2 and an Applied paper covering topics from both Mechanics and Statistics.
In Further Mathematics the students will sit 4 exams: Further Pure Mathematics 1, Further Pure Mathematics 2, Decision Mathematics and Further Mechanics.

A-Level Mathematics is one of the most popular subjects in Coombe Sixth Form, with over 100 students studying the course.

## Extra-Curricular

Alongside our regular maths lessons, the Maths Department offer a variety of extra-curricular opportunities to both inspire and support our learners further:

- Maths Challenge
- Inter School Team Maths Challenge
- Number Day
- One to one numeracy
- Maths Club
- Chess Club
- STEM Club
- Additional Maths qualification
- Times table competition
- Regular Year 11 revision sessions
- Weekly sixth form intervention


## Results

94\% A*- C in 2016
Best non-selective state school maths results in borough in 2016
Progress 8 score of +0.85 in 2017
75\% grade 5+ in 2017
38\% grades 9-7 in 2017
12\% grade 9s in 2017
100\% A*- E at A2 maths in 2017

