

## KCLMS Curriculum Summary 2020-21

### The current y12 cohort

The students currently in year 12 have been enrolled into the following A Level curriculum:

- A2 Mathematics (MEI), sat in June 2022
- A2 Further Mathematics (MEI), sat in June 2022
- A2 Physics (OCR B), sat in June 2022
- AS Computer Science (AQA) *or* AS Economics (EdExcel), sat in June 2021

Number of lessons: 9 for maths and further maths, 4 for physics, 5 for computer science / economics. [Lesson length is 50 minutes].

All students in year 12 will also engage in the King's Certificate programme, which involves:

- The completion of a substantial collaborative project set by a KCL academic or an industry representative in an area relating to the mathematical sciences
- 30-40 hours per student
- The production of a journal article to be published in a KCLMS Journal
- A presentation given to students, staff, governors, academics, industry representatives and other guests

When they progress into year 13, all student will be encouraged to engage in the Extended Project Qualification and in Curriculum X.

The broader curriculum for year 12 includes:

- A weekly skills development session for the King's Certificate
- A weekly problem solving session with a PhD student / KCLMS mathematics teacher
- A weekly personal development session with the Assistant Head (PDBW)
- A programme of clubs/societies
- A programme of speakers which will initially operate remotely
- A fortnightly afternoon of mathematical extension, working towards SMC and other extension problems and papers.

### The current y13 cohort

The students currently in year 13 are all sitting:

- A2 Mathematics (MEI) in June 2021
- A2 Further Mathematics (MEI) in June 2021
- A2 Physics (OCR B) in June 2021

Number of lessons: 11 for maths and further maths, 6 for physics. [Lesson length is 50 minutes]

Students may choose to complete an EPQ, and/or to take Curriculum X courses in mathematics, physics, computer science and economics, taught by KCLMS teachers and lecturers from KCL.

The broader curriculum for year 13 includes:

- Optional EPQ and Curriculum X sessions as described above, both developing university level learning skills in different ways

- An optional weekly university preparation session on a Thursday afternoon where we support students to prepare for the various extension papers (PAT, MAT, TMUA, CSAT, STEP, AEA etc)
- A weekly personal development session with the Assistant Head (PDBW)
- An optional programme of clubs/societies
- An optional programme of speakers which will initially operate remotely.