

# The Gordon Schools

## Faculty of Mathematics

### Higher Applications of Maths



#### Course Content

##### Finance

- Financial products and inflation
- Accumulation and present value
- Loan repayment schedules
- Salaries, taxation, and financial planning
- Spreadsheet skills

##### Assessment

Your final grade for this course comes from both your performance in the final exam and a piece of coursework in the form of a statistical project written during class time.

**Final Exam** – a single 2 hour paper, worth 73% of your final grade

**Coursework** – a statistical report, worth 27% of your final grade

##### Statistics & Probability

- Probability trees
- Venn diagrams
- Sourcing and presenting data
- Statistical analysis (hypothesis testing)
- Coding in R Studio
- Writing a statistical project

##### Mathematical Modelling

- Fermi problems
- Recognising linear, quadratic, and exponential graphs
- Consistent units of measure
- Errors and tolerance
- Recurrence relations

##### Planning & Decision Making

- PERT & Gantt charts
- Risk analysis and expected value

This course should not be seen as an “easier alternative” to Higher Maths as it assesses a totally different skill set.

Pupils need to be confident using ICT as this makes up a huge part of the course – experience with National 5 Computing Science or Admin & IT can be very beneficial.