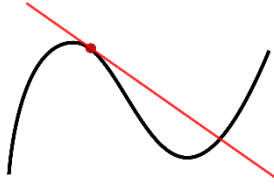


Further  
Maths



Exam Board  
Edexcel

Syllabus number  
9FM0



King's  
School

*“Pure mathematics is, in its way,  
the poetry of logical ideas.”*

Albert Einstein

### **Course entry requirements**

Grade 8 in GCSE Mathematics and A-Level Mathematics must be taken too.

### **Why should I study mathematics?**

Further Maths is taken in addition to A Level Maths. It enables enthusiastic mathematicians to broaden and deepen their subject knowledge through studying additional, more challenging topics in pure maths as well as a wider range of topics in applied maths. Further Maths is suitable for students who are considering studying for a Maths, Engineering, Physics, or similar degree. It is also a perfect choice for those students who love Maths and want to devote more time to the studying wider aspects of the subject.

### **What does the course look like?**

You will study a wider range of topics in Pure Maths, plus additional topics selected from Mechanics, decision mathematics or Statistics. Assessment is through four examinations at the end of the two-year course, each of 90 minutes' duration.

### **How will I learn?**

You will develop your understanding through a range of methods: modelling, application, discussion, and presentation. Independent study is a vital part of this development, where you apply new techniques and secure a deep understanding.

### **What kind of things might the subject lead me to?**

Maths underpins most of science, technology, and engineering, and is also important in areas as diverse as business, law, nutrition, sports science, and psychology. There are many opportunities to use maths to make a difference in society, for example through the analysis involved in medical research, developing new technology, modelling epidemics or in the study of patterns of criminal activity to identify trends.

Further examples include finance and banking, operational research, computer game design, engineering, health, education, teaching, accounting, aerospace and defence, environmental industry, pharmaceutical industry, healthcare, food and drink industry, bio science and medicine.