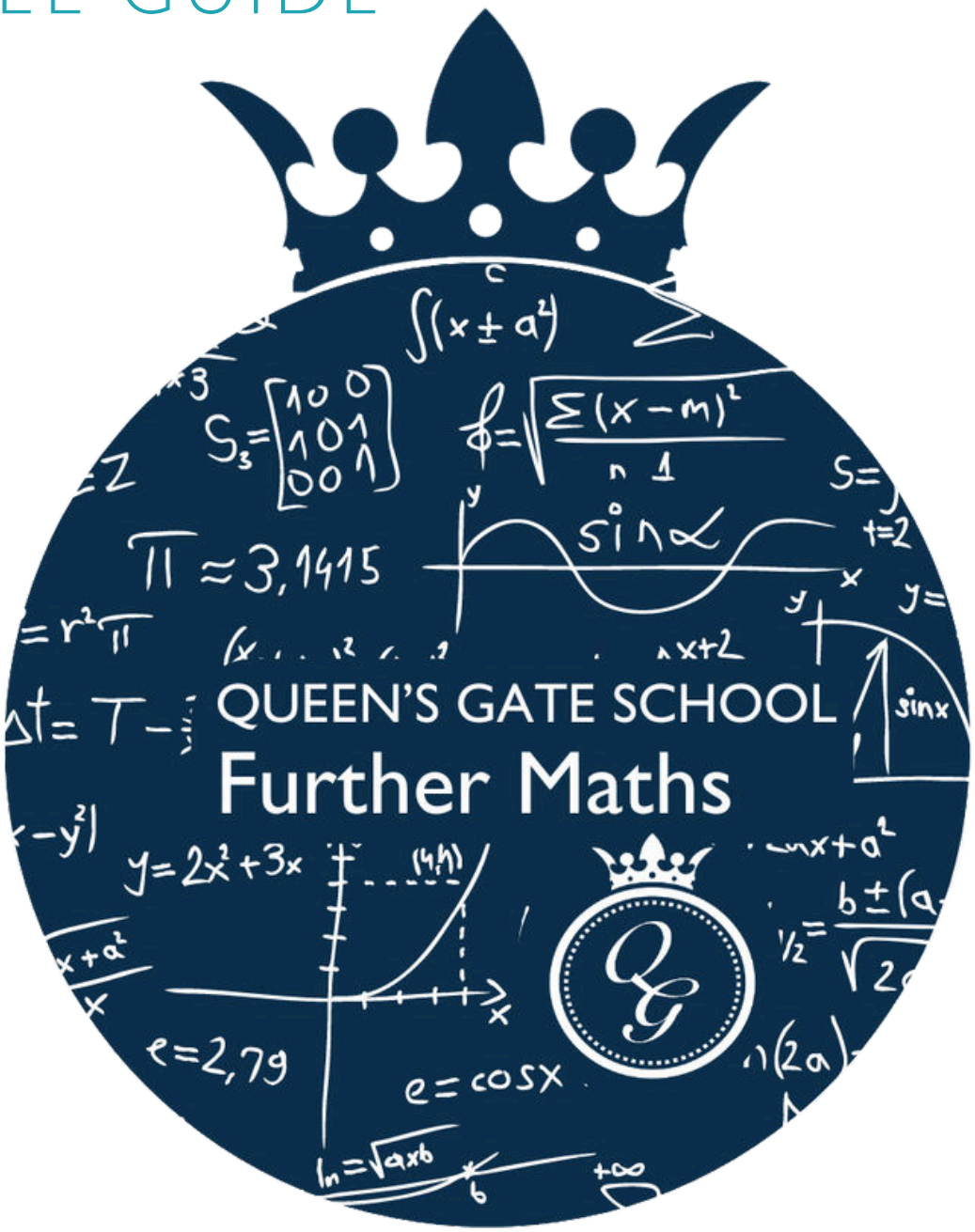
QUEEN'S GATE SCHOOL

FURTHER MATHEMATICS

A-LEVEL GUIDE



WHY STUDY FURTHER MATHEMATICS?

If you enjoy Mathematics, then you will relish the opportunity to study higher level topics not covered in a single Mathematics course. Further Mathematics is intellectually challenging and you will learn to approach problems with a greater degree of rigour, as well as being introduced to topics like matrix algebra and complex numbers which you may not have seen before.

Further Mathematics is a requirement for some university courses, notably some engineering, economics and business management courses. It can also give a significant advantage in others: former students often comment that having done Further Mathematics made certain topics in their degree course much more accessible.

Here's why some of our current Further Mathematicians would recommend the course:

"Taking Further Maths made the core mathematics concepts more tangible to me. I was not just learning formulas and theories but seeing how it could be applied to the real world (like engineering, which I want to study). Moreover, these abstract concepts were more exciting to learn about."

"Taking Further Mathematics will allow you to understand STEM subjects and develop transferable skills. Learning about matrices and complex numbers helped me understand the concept of quantum computing."

"Further Maths opens a lot of options for top universities, for example Oxbridge. It also really helps with the normal Maths A level. It's very enjoyable if you like Maths and challenging yourself."

"Further Maths helps you develop a deeper understanding such as how certain formulae are derived. Also it involves problem solving which is good training for professional situations."

THE STRUCTURE OF THE COURSE

Further Mathematics students are taught in a separate class and cover the whole of the "normal" Mathematics A level in LVI, before covering the Further Mathematics A level in UVI. All students take the same compulsory Core Mathematics modules, but we are often able to provide a choice of optional modules, allowing individuals to specialise in areas of Mathematics they find more interesting, or which are more relevant to their intended university courses.