Nower Hill 6th Form:
Inspiration, excellence, opportunity - a confident future

MATHS
AS / A Level

Who is the course for?
Mathematics underpins almost every aspect of modern life. Its applications extend from space exploration to the National Lottery. You'll enjoy this challenging course if you like solving problems in a logical manner, applying mathematical theories to real life situations and constructing rigorous mathematical arguments. You will develop your ability to reason logically, to construct mathematical proofs and to use mathematics as an effective means of communication.

What can it lead to?
A level Mathematics is well regarded as an indication of potential by both employers and universities. It is useful for entry to any higher education course and leads naturally to careers in accountancy, actuarial science, banking, economics and civil and mechanical engineering.

What are the entry requirements?
To study Maths, students must achieve Grade 6 or above in GCSE Maths.

Due to the difficult nature of this subject a test will be set after the first three weeks of teaching. This will be based on GCSE content and content covered in class during the first three weeks. One resit opportunity will also be given but if a student does not pass this test then it will not be possible to continue on this course. This test has been introduced based on clear evidence which shows that students who struggle with the initial content, often fail to attain a GCE pass at E or above. Moving students to a more suitable course will make attaining the entry criteria required to continue into Y13 and on to University more likely.

Are there any links to other courses?
This course provides links to other courses in particular all the AS science subjects, AS Computer Science, AS Economics and AS Business Studies, AS Psychology and AS Geography.

What will I Study?
The course will enhance your use of mathematical knowledge to make logical and reasoned decisions in solving problems both within pure mathematics and in a variety of contexts, and communicate the mathematical rationale for these decisions clearly.

The AS Mathematics qualification can be awarded at the end of year 12 following **two** exams sat at the end of the year 12.

The A level Mathematics qualification can be awarded at the end of year 13 following **three** exams sat at the end of the year 13.

Grades awarded at AS make no contribution to grades at A level.

How will I be taught?
You will be taught through whole class teaching, classroom activities, demonstrations and small group work.

How will I be assessed?
Exams 100%

Dates of Assessments
Summer

What equipment or materials will I need?
Textbook, all standard stationery, writing materials and folders. You will also need a scientific calculator able to perform iterative functions and the ability to compute summary statistics and access possibilities from standard statistical distributions.
 (Certain calculators with calculus and programming functions are not permitted in the exam)

HARROW
SIXTHFORM
COLLEGIATE