

MATHS IN COMPUTERS

Computers wouldn't exist without mathematics. At their very heart, they are numbers, 0s and 1s, transmitted as electronic pulses. There are many strands involved but Number and Algebra are of primary importance.

Below are some ideas for students to explore. Students investigate the mathematics involved and write a mathematical report with their findings. This link gives instructions on how to write a report.

<http://mastering-mathematics.com/webpages/working-mathematically/report.html>

STAGE 4 – YEARS 7 AND 8

- Binary numbers – Number
- Computer programming – Logic and Algebra
- Cryptography – Prime Numbers, Logic

STAGE 5 – YEARS 9 AND 10

- Hexadecimal numbers - Number
- Computer programming – Logic and Algebra
- Electronics – Complex Numbers
- Cryptography – Modular Arithmetic

