Your **Computing** Journey

Further & Higher Education

Studying Computing can lead to a wide variety of degree courses and apprenticeships. University studies cover a range of key elements for example using information systems, software engineering as well as looking at artificial intelligence. It is not just about being able to program. You could also study app and game design. This subject links well with Maths, Further Maths and Physics.

Careers

A range of careers including IT, Software development, Programmer, Game design, Manufacturing, Education, Web designer, Mobile App developer, AI engineering, Data scientist, system analysis, and Cyber Security

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Year 11

AUTUMN
- Searching and sorting algorithms. Ethics and the law surrounding the latest technology
- Review writing programs. Databases and SQL Exam Technique

SPRING
- Review Hardware and software Review Binary and logic gates
- Review Robust programs/Random and practice answering exam questions

SUMMER
- Review Networks and Cyber Security

Year 10

SUMMER
- Programming Reading and writing to files Fundamentals of computer networks & cyber security
- Programming Writing Algorithms Cyber security Software development

SPRING
- Program: String handling operations Computer systems, logic gates
- Producing Robust Programming Clear testing and use of validation in programs

AUTUMN
- Understand basic programming skills such as Lists, functions and procedures. Understand how the Central Processing Unit works
- Programming skills - How characters, sound and images are represented

Year 9

AUTUMN
- Text Based Programming using Python
- Cyber Security

SPRING
- App Design
- Superhero Project using iMedia

SUMMER
- Future of Technology

Year 8

SUMMER
- Google Site
- Game Design
- E-Safety & Data Representation
- Photoshop
- Google Sheets

SPRING

AUTUMN

Year 7

AUTUMN
- How to use your Chromebook & E-Safety
- Algorithms using flowcharts

SPRING
- Programming using Microbits

SUMMER
- Google Sheets
- Modelling using spreadsheets