Computer Science KS3 Learning Journey

Subject Overview?

The ability to use computers and understand how they work is an essential skill for students to be able to take an active part in modern society. The school has state of the art equipment in five dedicated computer suites and offers a wide range of courses to suit the interests of all students.

Key Stage 3

In Years 7, 8 and 9, students are introduced to a wide variety of computer applications to develop their skills in using computer programmes. Computing explores the way that computers work and the programming techniques required for developing new applications. These courses are an ideal introduction to the world of computer science.

Electronic Links

Teams

Data Representation
How sound, colour and text are converted into digital form as binary numbers

Lego Mindstorms
Block based programming with team challenges to make the Lego robot follow a course

Yr9

Text based programming
Creating algorithms
Programming using Python

Enterprise
Create a Company to sell to Yr7 on Enterprise day

Logic Gates
Binary and hex numbers, creating circuits using logic gates

Introduction to the school network
Logging on, Teams, school email

History of Computing
people events and landmark developments

Yr7

Yr8

Build a computer
Design price a computer for a specific use

Edublocks
block based programming unit

E-safety
Research into existing products
Research the Law and E-safety
Plan and create an E- safety video

Software
learning about system, utility and application software

E–Safety
Cyberbullying, Social media and the law, Fraping.