

COMPUTER SCIENCE KEY STAGE 3

MODULES/UNITS IN YEAR 7

Standard Ways of Working (10 hours)

In this unit students learn about the basic ways of using a computer and staying safe on the Internet

Spreadsheets (6 hours)

In this unit students learn how to use Spreadsheets to perform calculations and automate tasks

<u>Databases</u>

In this unit students learn the importance of databases and how they function

Programming Concepts (19 hours)

In this unit Students learn the fundamental structures and knowledge required to be able to write their own computer programs

Fundamentals of Computer Systems (12 hours)

In this unit students learn how th computer functions

Game Development (15 hours

In this unit Students use their programming skjill to write their own games

MODULES/UNITS IN YEAR 8

Data representation (13 hours)

In this unit Students learn about how data is represented by the computer e.g. binary

Practical Programming (22 hours)

In this Unit Students are introduced to programming in a high level language such as visual basic

Databases (12 hours)

In this Unit Students learn to use the more advanced functions of databases

Web Design (16 hours)

In this unit students learn how to code and design web pages

BBC Microbit (7 hours)

In this unit students get the opportunity to use microelectronics to further their understanding of how computer systems function

DURING
TERM 1
TERM 2
TERM 2
TERM 3
TERM 4
TERM 5
TERM 6

OTHER INFORMATION

The Computer Science Department aims to offer a broad and balanced curriculum at KS3 with the emphasis being on programming and computer systems. We believe this offers students an engaging curriculum which prepares them well for the future and is far more challenging and suitable for our students than an ICT based curriculum