

Computing Learning Journey

Careers

Software Developer
Applications Programmer
Systems Programmer
Multimedia Programmer
Systems Analyst

University

A systematic study of algorithmic processes that describe and transform information

GCSE Programming:

Data types, programming concepts, Arithmetic operations, Relational operations, Boolean operations, data structures, Input/output, String Handling, Random number generation, structured programming and subroutines, Robust and secure programming.

Apprenticeships
An IT apprenticeship is a real job in technology that provides you with training, industry-recognised qualifications and a salary.



Computing @ ASFC & Tameside College
Computer Science A level
Digital Games Production Diploma

POST
16

GCSE Ethical, Legal, Environmental:
Current ethical, legal and environmental impacts and risks of digital technology



GCSE Relational databases and structured query language:
Concepts of databases and relational databases, Structured Query Language (SQL) key commands

YEAR
11

GCSE Representation of Data:
Number bases, converting between number bases, units of information, binary arithmetic, character encoding, representing images, representing sound, data compression



GCSE Algorithms:
Understanding what algorithms are, determining the purpose of algorithms in the format of both flowcharts and pseudocode



GCSE Computer Networks:
Defining a computer network and network protocols, describing types of networks and topologies, network security, describing the 4 layer TCP/IP model.

GCSE Computer Systems:
Hardware and software, Boolean logic, Software classification, classification of programming languages and translators, Systems architecture.

YEAR
10

KS4 Core Computing:
Create and format documents professionally in Word, PowerPoint and Excel.

KS4 Core Computing:
Selected IDEA badges to focus on the content and skills from the KS4 Computing Curriculum.



Python programming:
Further development of sequence, selection and iteration using text based language



AI Safety:
Introduction to using AI safely



IDEA AWARD:
Digital Literacy skills

YEAR
9

Business & Real World:
Introduction to Business Studies: Market Research, product design and finance

Digital Literacy Skills:
Developing Spreadsheet skills to be workplace ready.

Cyber Explorers: The Missions
Understanding cybersecurity risks, how to protect from malware and what to do if you are hacked!

IDEA AWARD:
Digital Literacy skills

Digital Literacy Skills:
Developing Word skills to be workplace ready.

Digital Literacy Skills:
Developing PowerPoint skills to be workplace ready.



IDEA AWARD:
Digital Literacy skills

Cyber Explorers: Challenges
Understanding cybersecurity risks, how to protect from malware and what to do if you are hacked!

Computational Thinking Logic/ Binary:
Introduction to logic gates and converting between binary and denary number systems

Moving from Scratch to Python:
Developing sequence and iteration



Consolidation of Network, E-Mail and E-Safety: Rayner Stephens Network Certificate
Introduction to the computer room and how to access the school network and send emails professionally.

YEAR
8

Digital Literacy Skills:
Developing Word skills to be workplace ready.



YEAR
7

WELCOME TO COMPUTING AT RSHS

Intro to Network, E-Mail and E-Safety: Rayner Stephens Computer Driving Licence & Rayner Stephens Computer Passport
Introduction to the computer room, how to access the school network and send emails professionally.



Scratch programming:
Developing sequence, selection and iteration



Digital Literacy Skills:
Developing PowerPoint skills to be workplace ready.