

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

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

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

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.

YEAR 11

POST 16

GCSE Cyber Security :
Purpose of cyber security, threats, social engineering, malicious code, methods to detect and prevent cyber threats

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.

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

KS4 Core Computing:
Use Email professionally and explore reliability of sources and effective online searching.

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 , moving onto physical computing



YEAR 10

IDEA AWARD:
Digital Literacy skills

YEAR 9

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

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



Computational Thinking Logic/ Binary:
Introduction to logic and binary using truth tables and logic gates

Scratch programming:
Developing sequence, selection and iteration, moving onto physical computing



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



Python programming introduction:
Developing sequence, selection and iteration

Intro to Network, E-Mail and E-Safety:
Introduction to the computer room and how to access the school network and send emails professionally.

YEAR 8

IDEA AWARD:
Digital Literacy skills

YEAR 7

WELCOME TO COMPUTING AT RSHS

Intro to Network, E-Mail and E-Safety:
Introduction to the computer room and how to access the school network and send emails professionally.



Scratch programming: Developing sequence, selection and iteration, moving onto physical computing



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