

The Computer Science Learning Journey

Computational thinking, algorithms and programming:

Programming
Iteration
Subroutines

Programming
Sequence
Dictionaries and data

Programming
Selection
Strings and lists

Programming
Assessment

Programming
Assessment

Practical programming

What platforms use Python as its default code?

How is the Waterfall cycle used within the Computer Science industry?

CAREERS

Network engineer
Cyber
Technician
Analyst
Programmer

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Databases and SQL systems

Algorithms
Binary search
Linear Search
Bubble search
Tracing Algorithms

Networks
Creating virtual topologies using packet tracer software

Cyber security
Personal Networks
Internet
Cyber types of attacks (Wireshark)

Data Representation
Binary
Hexadecimal
ASCII codes

Computer Systems & Computer software
FDE cycle
Assembly programming language

What are the advantages of SQL databases?

How do computers search for data on a system?

http or https
Which one would you choose?

What language do computers talk to each other in?

Computer Systems

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Ideas

Gold badges
Level 3 typing tutor

Algorithms and Flow Charts
Pseudo Coding

Algorithms
Trace Tables

Logic Gates
And
Or
Not
AvB-A'B

Truth tables
Algorithms, logic gates combined

Programming
Intro to python

When was the first cipher code used, and by who?

How do coding and flow charts work together?

Who is Joan Clarke and what was her role in Computer Science?

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Codes
Encryption and Decryption

Ideas
Silver badges
Level 2 typing tutor

Programming
Scratch
(Block coding)
Using Algorithms and flow chart

Programming
Second stage
Algorithm's

Flow charts
Creation and understanding

Accounts
File management
Folder creation of subjects

What role did Margaret Hamilton make within the Computer Science world?

Can we access our work from home? If so, why?

Why do we use formulas?

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Accounts-
Passwords and username
Logging onto the computer network

Introduction to Office 365
Teams
Email
Class Charts
OneDrive

Saving
School Network
OneDrive
Teams
Advantages & disadvantages

Welcome
Ideas
Bronze badges
Typing tutor

Microsoft Office Word
Formatting
Copy and pasting
Print Screens
printing

Microsoft Excel
First stages of programming
Formulas
Sum
Count
If Statements

Welcome to the Computer Science Department

Office 365 accounts

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All students will develop into highly creative and expressive learners. Every student encouraged to explore their creativity and flair: being imaginative, reflective, confident, and independent in their approach.