



SKILLS KNOWLEDGE

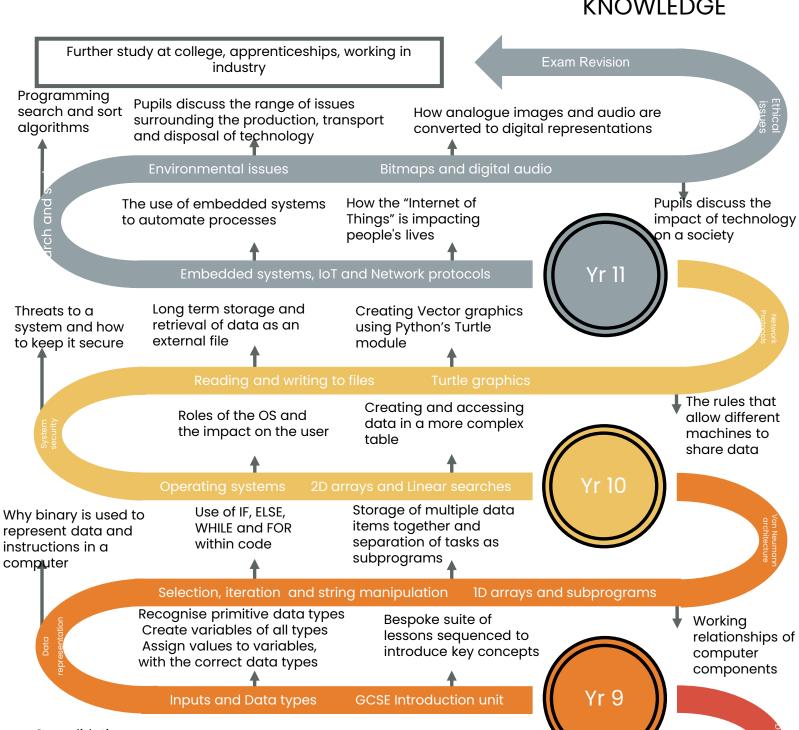
Year 11 Pupils create complex programs that make use of sub-programs, iteration, selection as well as reading and writing to files to solve problems. Pupils can discuss a range of issues surrounding the use of

technology

Year 9 prior work with Python including more store and manipulate data. Pupils understanding of how system components work together becomes more specific and complex

Year 8 Programming using Python, understanding Variables, Inputs and outputs of a program. How data, stored as binary, can be used to represent a value, a character, a colour or a sound. Organising data in a meaningful spreadsheet

Year 7 Understanding the components that make a computer, how computers network with each other, how a webpage displays on a screen and how to develop a sequence of instructions to solve a problem



Consolidation and assessment of Python skills Spreadsheets

Understanding

language to build

the HTML

webpages

Using a spreadsheet to organise data and perform calculations

Conversion between Denary

Selecting a range of digital tools to create professional documents

Using digital tools to gain support for a cause

Pupils use a series of and binary values, Binary interactive tutorials to be addition, bitmap images familiar with Python

Binary Bit's n Bobs Interactive Python tutorials

Designing programs to reflect real life systems How individual computers share data and communicate

Control Systems using Flowol **Networks** Pupils will identify Using Rapid Router pupils components of a PC and will create algorithms to how they work together solve problems Hardware Algorithms and problem solving

Pupils reflect on their own use of technology and surrounding issues

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