# Computer Science KS3 Learning Journey

Springwood High School

## 9

**9.1: Impact of ICT:**
Evolving technology; Impacts – environmental, privacy, cultural, ethical, legal; Cloud computing

**9.2 Image Editing:**
Bitmaps; Pixels; Vector graphics; Layers; Editing tools

**9.3 Cybersecurity:**
You and your data; social engineering; Scripts, Bots, Threats

Assessment

**9.4 Spreadsheets:**
More advanced functions and formulae; Formatting; What if modelling; Vlookup; Macros

**9.5 AI**
Rights, safety and well-being; Daily impact; Limitations; Generative AI; Chatbots; Safety protocols

**Python :**
Binary, logic, AND OR NOT, lists; Selection; Iteration; Sequence; Arrays

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**8.6 Animation & Video editing:**
File type;
Frame rate;
Transition

**8.5 Data Representation**
Binary numbers; Data storage; Hex and binary addition; Storing text & images; Compression

Assessment

**8.4 Websites**:
HTML – Notepad; Language; Tags; Key commands; Hypertext
Web authoring - planning; design; creation; development; testing

**8.1 Database:**
Setting up a database; Relationships; Data types; Queries; Forms; Data entry; Simple reports; Mail merge

**8.2 Logical Thinking:**
Problem solving with flowcharts; Sorting algorithms; Debugging; Code cracking; Logic gates

**8.3 Networks**
Hardware; Addresses & protocols; Packets; Routing; Performance; Privacy

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**7.6: Introduction to text based programming**:
(Turtle, Kodu, Python)

**7.5 Introduction to programming** :
Sequence-Block based programming

Assessment

**7.4 Cryptology & Flowol**:
Flowcharts; Cryptology; Barcodes; E-commerce

**7.1 Introduction:**
Passwords ; Logon; Email; Bromcom; Shortcuts; Printing; Hardware; Software; Programming concepts.

**7.2 Online safety:**
Cyberbullying; Social media; Netiquette; Passwords; Digital footprint; Online privacy; Reporting concerns.

**7.3 Spreadsheets**:
Basic functions and formulas; IF statements; Representing data; Formatting

West Norfolk Academies Trust