Computer Science KS3 Learning Journey



9.4: Python:

Searching, Linear & Binary Sorting Bubble Sort, Merge Text files

Array (1D & 2D) Divide & Conquer 9.5 and 9.6: Integrated Project:

Planning

Mind maps Gantt charts system life cycles

Researching

Designing

Implementing

Evaluating

Spreadsheets - Financial Models

9.3 Database relational:

Key fields

Entity relationship, Importing data from a text file and a spreadsheet, Validation, Verification, Foreign key 9.2 Coding- Data representation:

Text, ASCII, Unicode

Sounds-audacity

Analogue, Digital Pictures, Metadata, Resolution,

Compression

Assessment

Assessment

9.1 Bitmap editing:

Vector, Bitmap, File types, Compression, Resolution, RGB,

CMYK

8.4 Python Chatbot:

(binary, logic, AND OR NOT, list)

Selection Iteration

Sequence

8.5 Spreadsheets:

basic and advanced functions and formulae, Formatting, What if modelling

Vlookup, Macros

8.6 Database Flat file:

Interrogation Data entry form Multiple criteria queries Data types

Simple queries, Data entry

Simple reports Mail merge (letter to businesses) DPA/GDPR

8.3 Web Authoring:

(Serif Webplus) E-Safety information, Reliability, Bias, Legislation, Plagiarism, Ethical issues

8.2 Animation & Video editing:

File type Frame rate Transition

8.1 HTML (notepad):

Creating website on "Future Careers"

7.4 Cryptology & Flowol:

Sequence Shapes

Boolean operators

7.5 Scratch:

Sequence-Block based programming

Cyberbullying, Social media,

Netiquette, Digital footprint,

Reporting concerns. Cryptology

7.6: Introduction to text based programming:

(logo, turtle, Python)

Basic and advanced functions and formulas

Representing data

Word, PowerPoint, Publisher.

7.2 E safety:

To include:

7.1 Introduction:

Passwords, Logon, Email, Safe and effective searching, Plagiarism, Copyright, Hardware, Computer systems, Sequence -Kodu - Block based programming.

7.3 Spreadsheets:

Formatting