Computer Science KS3 Learning Journey

Springwood High School

9

9.1 Bitmap editing:
Vector, Bitmap, File types ,
Compression, Resolution, RGB,
CMYK

9.2 Coding- Data representation:
Text, ASCII, Unicode
Sounds-audacity
Analogue, Digital
Pictures , Metadata , Resolution,
Compression

Assessment

9.3 Database relational:
Key fields
Entity relationship, Importing data
from a text file and a spreadsheet,
Validation , Verification, Foreign key

9.4: Python;
Searching, Linear & Binary Sorting
Bubble Sort, Merge
Text files
Array (1D & 2D)
Divide & Conquer

Assessment

9.5 and 9.6: Integrated Project:
Planning
Mind maps Gantt charts system life cycles
Researching
Designing
Implementing
Evaluating
Spreadsheets - Financial Models

8

8.1 HTML (notepad):
Input, Output , Processing,
Create your own webpage

8.4 Animation & Video editing:
File type
Frame rate
Transition

Assessment

8.2 Web Authoring:
(Serif Webplus)
E-Safety information, Reliability,
Bias, Legislation , Plagiarism, Ethical
issues

8.3 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

Assessment

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

7

7.1 Introduction:
Passwords , Logon, Email,
Safe and effective searching,
Plagiarism, Copyright, Hardware,
Computer systems, Networks,
Accessibility and usability

7.2 E safety:
Cyberbullying , Social media,
Netiquette , Digital footprint,
Reporting concerns.
To include;
Word, PowerPoint, Publisher.

Assessment

7.3 Spreadsheets:
Basic and advanced functions and
formulas
Representing data
Formatting

7.4 Cryptology & Flowol:
Sequence
Shapes
Boolean operators

7.5 Scratch :
Sequence-Block based programming
(Scratch, Kodu,)

Assessment

7.6: Introduction to text based programming:
(logo, turtle, Python)

West Norfolk Academies Trust