KS3: YR7 COMPUTER SCIENCE LEARNING JOURNEY

- IDE, syntax
- Sequence, print function
- Sequence, variable, input function

Block Programming - Edison Robots

Textual Python Programming

YEAR 8

- Design a maze
- Code to navigate maze

Mini Project
Block programming Microbits/Edison Robots and create a presentation with video of programmed Microbit/Robot

- Sequence
- Selection
- Selection with count
- Decomposition/Function

HALF TERM

Block Programming - Microbits

- Revision
- Summative Assessment
- Feedback and NOW

- Bias in bias out
- Decision trees
- Solving problems with ML models

Elements of a computer, input and output devices
CPU
Storage devices

SUMMER TERM

Understanding Computers and Data Representation

- What is Ai
- Machine Learning
- Ethics an AI
- Ethics and China

Denary
Binary addition
Sound, images and text

Revision
Summative Assessment
Feedback and NOW

HALF TERM

Artificial Intelligence and Machine Learning

SPRING TERM

- Social networking
- Keeping your data safe/how to report
- Using email cc, bcc, attachments
- Sending emails

All about me presentation

- Binary

1100010
11000111 10001
010101010100100
0111000111000111
1010111000 1110001
001110101010101011
11000111 00011
0101010111101
11001
111
11

Using Computers Safely, Effectively, Responsibly

Data Representation

HALF TERM

Mini Project – Digital Literacy
- File management – home area folders/ subfolders/files
- Creating folders and files
- Finding, saving and renaming images
- Inserting images into all about me presentation

YEAR 7

Digital Citizenship School Systems

- Logging onto network create secure password
- School systems - Teams, Office 365, Classcharts