QPHS Year 9 Computing Curriculum Map

Half term	Title	Unit summary	Assessment
1	**Python Programming with Sequences of Data**	Learning to manipulate strings and lists in Python and undertaking a programming project to show these skills	Marked mini-projects and multiple-choice and written assessment testing understanding of Python syntax and structure
2	**Networks: From Semaphores to the Internet**	Recognising networking hardware and explaining how networking components are used for communication	Multiple-choice assessment testing knowledge of networking components and knowledge of how networks and the Internet work
3	**Vector-based Animation**	Learn how to make vector-based animations using Wick editor	Self and teacher assessment of animation projects
4	**Cybersecurity**	Learn how to identify the different types of cyberattack and how users and organisations can protect themselves from them	Multiple-choice assessment testing knowledge of cybersecurity threats and how to prevent/protect against them
5	**Representations: Going Audiovisual**	Learning how to represent images and sound using binary digits	Written and multiple-choice assessment testing knowledge of the theory and skills in converting audio and image data to binary and vice-versa
6	**Physical Computing**	Sensing and controlling with the BBC Micro:bit	Self and teacher assessment of physical computing projects Written and multiple-choice assessment testing knowledge of the theory and skills in using the hardware of the Micro:bit and programming it using Python