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Curriculum Plans – Key Stage 3 Year 9 Computing

Please find below a detailed outline of the curriculum covered in Computing through Year 9 in Key Stage 3.

Year 9

	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
Topics	Python Programming: How is data represented and processed in sequences such as lists and strings? Pupils will write programs that display messages, receive keyboard input, and use simple arithmetic expressions.	Media and Animations: How do professionals create 3D animations using industry software such as Blender? Learners will practice the basics of modeling, texturing, and animating their 3D designs.	Audiovisual Media: How can I store my digital media (such as images and sounds) and as binary code? Pupils will use design software to manipulate images and sounds.	Data Science: How am I empowered by using data to investigate problems and make changes to the world around me? Learners will use data to visual patterns and trends.	Cybersecurity: What methods do cybercriminals use to steal data, disrupt systems, and infiltrate networks? Students will look at methods to protect from these attacks.	Physical Computing: How can I more effectively write programs that use these physical computing components to interact with the physical world?
Assessment	Encrypt and decrypt a text message using one of the oldest known cryptographic methods.	Creating a 3D animation to reflect cross-curricular learning.	Creating a digital art piece from existing and new media chosen by students.	Pupils will collect and analyse data relating to bahrain (e.g ocean litter) and present on their findings.	Presentation to school staff members about the schools cybersecurity and possible future steps.	Design and program a digital artifact of their choice - demonstrate its use and functionality.
Support Materials	Teach Computing KS3 Curriculum					



Student led projects and presentations.

