

### KS 3 Year 9 Computing Curriculum

Unit	Description
<b>Computer Science Project</b>	This unit builds on Year 7 and 8 by covering some of the more theoretical elements of Computer Science. It introduces pupils to the history of some eminent computer scientists. Pupils are also introduced to binary, hardware, the internet and networks and encryption. This unit gives pupils a flavour of the GCSE Computer Science.
<b>Graphics</b>	This unit focuses not only on skills using graphics software, but also on independence and resilience. Pupils are given a relatively open brief to create a 3D foldable character; they must then 'project manage' themselves over the course of the unit to ensure their work is completed by the deadline. The project is broken down into four key sections; research, design, creation & evaluation. There is simple guidance in terms of what is expected for a basic, low level, version of the project. However pupils must decide for themselves how best to approach each of these sections to best meet the brief.
<b>Databases</b>	Databases is a key topic area in both KS4 ICT and Computer Science courses, it is therefore very useful if pupils can start either or both of those subjects with a good foundation in the topic. Most of the lessons in this unit cover key fundamentals of the effective design and use of databases. This includes basic database design, queries, reports, forms and relationships. In the final lesson pupils will sit a practical assessment in which they will have to demonstrate the skills and knowledge they have learnt in the unit. (This unit is under review for Sept 2017)
<b>Microbit Project</b>	This unit allows pupils to explore the use of on-board computers. Pupils follow a range of tutorials that develop their programming skills using a block editor. The unit further develops their computational thinking and programming skills which links into GCSE Computer Science but also develops resilience and problem solving skills.
<b>Digital Literacy/ICT Project</b>	This unit will reinforce and develop skills in using Microsoft Office software to support the use of ICT across the curriculum in KS4 and beyond. Topics will also link into ICT courses at KS4. Further details TBC