**Curriculum Overview for Computer Science**

**Year 8**

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| Term 3Introduction to Python programming.Substantive Knowledge:To build on students’ previous programming using BBC MicroBits by introducing them to a text-based programming language, moving them away from the visual elements of the Block-based coding unit.Prepares students for further use of the programming language in year 9 and at GCSE level in year 10 and 11.Python programming is used in real world industries especially Data Management and Cyber Security. Teaching the use of the programming language will prepare students for a career in a number of Computer Science roles.Disciplinary knowledge:* Print statements
* Print statements with concatenation
* Debugging of issues in programs
* Variables and what they are
* Use of variables
* Better programming with spaces
* Creation of variables with valid names
* Input statements to allow the user to be asked a question
* Use of IF, ELSE statements to allow two options for a question
* Use of IF, ELIF, ELSE statements to allow more than two options for a question
 | Books | Model readingReading out loudSkim and Scan of source informationDecoding termsEtymology of key terms |
| Speech | PythonProgramPrintInputIFELSEELIFIndentationConcatenationVariableValueString |
| Checklist RTL | **Formative assessment**Knowledge checksQuizPractice questions**Summative assessment**End of unit assessment |
| Home | Practice questionsRevision tasksResearch tasks |