Curriculum Overview – GCSE Computer Science

| Autumn 1 | Computer Systems – Components of a computer system |
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| | CPU |
| | Memory |
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| | System Performance Secondary Storage |
| | Secondary Storage |
| | Systems Software |
| Autumn 2 | Computer Systems – Date Representation |
| | Units |
| | Binary Numbers |
| | Hexadecimal Numbers |
| | Characters |
| | Images, Sound and Compression |
| Spring 1 | Computer Systems – Networks |
| | LANS and WANS |
| | Hardware |
| | Topologies |
| | Protocols |
| | Computer Systems – Issues |
| | Ethical and Cultural Issues |
| | Environmental Issues |
| | Computer legislation |
| Spring 2 | Computational Thinking - Algorithms |
| | Writing Algorithms |
| | Search / Sorting Algorithms |
| | Programming |
| | Basics / Strings / Flow |
| | Constants and variables |
| | Boolean logic |
| | Random numbers |
| | Arrays |
| | File Handling |
| | Storing and Searching |
| Summer 1 | Computational Thinking – Design Testing and IDEs |
| | Structured programming |
| | Defensive design |
| | Testing |
| | Trace tables |
| | Translators |
| | IDEs |
| | |
| | Interpreted and Compiled languages |