

LONG TERM PLANS

Year Overview (Computing – Year 12 A level Computing)

| ESS Faculty | |
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| YEAR 12 A level Computing | |
| Autumn term | |
| Half term 1 | Half term 2 |
| <p>The characteristics of contemporary processors, input, output and storage devices</p> <p>Structure and function of the processor</p> <p>Types of processor</p> <p>Input, output and storage</p> <p>Systems Software</p> <p>Applications Generation</p> <p>Software Development</p> <p>Types of Programming Language</p> <p>Exchanging data</p> <p>Compression, Encryption and Hashing</p> <p>Databases</p> <p>Networks</p> <p>Web Technologies</p> | <p>Data types, data structures and algorithms</p> <p>Data Types</p> <p>Data Structures</p> <p>Boolean Algebra</p> <p>Legal, moral, cultural and ethical issues</p> <p>Computing related legislation</p> <p>Moral and ethical Issues</p> |
| Spring term | |
| Half term 1 | Half term 2 |
| <p>Elements of computational thinking</p> <p>Thinking abstractly</p> <p>Thinking ahead</p> <p>Thinking procedurally</p> <p>Thinking logically</p> <p>Thinking concurrently</p> | <p>Problem solving and programming</p> <p>Programming techniques</p> <p>Computational methods</p> <p>Algorithms</p> |

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| Summer term | |
| Half term 1 | Half term 2 |
| Programming project Analysis of the problem Design of the solution Developing the solution | Programming project Developing the solution Evaluation |