# Key Stage 4

In Key Stage 4 we offer a GCSE in Computer Science examined by AQA. The course examines key Computer Science theory topics such as Data Representation, Networking and Technology in the wider society but also focuses heavily on programming. The programming language we use for the duration of the course and the paper 1 examination is VB.NET developed using the Visual Studio developer environment. The course is examined through two theory papers worth 50% each (subject content is divided equally between the 2 papers).

| N10 | Year 11 |
|---|---|
| Summer Term: | Autumn Term: |
| SLR1: Systems Architecture | Longer Answer Questions |
| SLR13: Data Representation | SLR11: Boolean Logic |
| Year 10 | SLR7,8,9,10 Pt3: : Programming & Algs languages |
| Autumn Term: | SLR14: Relational Databases & SQL |
| SLR13: Data Representation | Spring Term: |
| SLR2: Memory & Storage | SLR12: Classification of programming |
| SLR3: Networks | SLR14 Relational Databases & SQL |
| SLR7,8,9,10 Pt1: Programming & Algs | SLR13 Recap |
| Spring Term: | SLR 7,8,9,10 Recap |
| SLR4: Security | Summer Term: |
| SLR5: Hardware & Software | Revision/Recap |
| SLR7,8,9,10 Pt2: Programming & Algs | Examinations |
| Summer Term: | |
| SLR6: Ethic/Legal/Moral Consequences | |

Our KS4 curriculum is largely delivered through the flipped learning model to implement further deliberate practise (see curriculum implementation). As part of the flipped model we use a set of video resources for the learning that takes place outside of the classroom. These can be found at https://student.craigndave.org/gcse-aqa-8525. The website breaks the GCSE specification down into a series of SLRs.

For those not studying GCSE Computer Science, the PD and form time curriculum will cover the National Curriculum strands of ICT and E-Safety. In Year 10 there will be STEM ambassador section where Algorithmic thinking will be developed.