|  |
| --- |
| Curriculum Overview |
| Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| The three main strands that are Computer Science, Digital Literacy and Information Technology play a key part in our Year 7 curriculum. Students will build upon skills learnt at KS2 and develop these during this academic year. All students will be using OneNote as their digital exercise book during KS3. | Creativity and problem solving are the primary focus during Year 8. Students are encouraged to explore and investigate the three main strands with a view developing their understanding of digital technology.  | Our Year 9 curriculum offers students the chance to explore computing in greater detail. To support this, some lessons be project based where students are actively encouraged to work independently. In addition to this, students will begin to think about options at GCSE where Computer Science and Information Technology are popular choices. | Computer ScienceIT | Computer ScienceIT |

|  |
| --- |
| Curriculum Topic Sequencing |
| Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| Digital literacy including e-safetyLogging on to computers, efficient and safe use of the internet, cybercrime and cyberbullying. ProgrammingStudents will learn or expand on previous computer programming skills by using flowcharts. Digital graphicsExpanding on basic IT skills to include image manipulation and use of Office 365 packages | Physical ComputingDuring this topic, students will deepen their understanding of physical computing. Within this part of the curriculum, students are encouraged to explore technical terms as well as further their understanding of specific components of the modern day computer.ProgrammingGaming as well as visual programming play a key part in this module. Exploration as well as creativity are encouraged.GraphicsEmphasis within this part of the curriculum is on enhanced image manipulation as well as using more advanced tools within specific computer programs.  | ProgrammingAdvanced computer programming is central to this topic where students use a range of language and programs to develop their skills. Project work as well as independent working are key to developing their programming skills. IT skillsUses and applications of databases are explored throughout this topic. InternetCybersecurity and website development are focal points during this module. Students investigate the structure and fundamentals of websites. |  |  |