



## Curriculum statement – Computing

**‘Confident in God’s love for us, we commit ourselves to His service’**

### Our Vision:

Our world is digital, a better understanding of computer science will enable them to make informed choices in their ever-increasing digital world. This is imperative for all our pupils, not just simply those who will become the software engineers of the future. Every child in every school has the right to a world-class computing education. To do that we need to encourage, support, equip and train our students of computing. Computer science, is where pupils are taught the principles of information and computation, how digital systems work and how to put this knowledge to use through programming. Building upon this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. This ensures that pupils become digitally literate – able to use, and express themselves and develop their creative ideas. Pupils are prepared for the future workplace and world, whilst staying safe in their ever-increasing digital world, simultaneously fully embracing the power of technology offered to them. We train our pupils not only for a G.C.S.E. but as much as possible with post-16 skills, relating to real-life situations wherever possible and feature cultural capital with the essential knowledge that children need to be educated citizens in the future.

### Aims for our pupils:

- Our pupils are prepared being guided how to learn, so they can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Our pupils are encouraged to be creative, responsible, competent, confident and users of computer science technology
- Our pupils are coerced to become independent so they can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Our pupils are encouraged to achieve using evaluation and apply information technology, including new or unfamiliar technologies, analytically to solve problems