Indian Queens School: Computing Curriculum Statement

At Indian Queens School, we aim to help our children to develop the skills, confidence and understanding to prepare them for the use of technology in a rapidly changing world.

We want the use of technology to support learning across the entire curriculum and to ensure that our curriculum is accessible to every child. Not only do we want them to be digitally literate and competent end-users of technology, but also, through our computer science lessons, we want them to develop creativity, resilience and problem-solving and critical thinking skills.

Aims

The National Curriculum for Computing aims to ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

Aspire's computing curriculum is designed to build knowledge and understanding of how different technologies work and to enable them to adapt flexibly to a fast-changing future. They will learn to use computational thinking and creativity to develop understanding of the world around them. Using the National Curriculum as a basis for our curriculum, objectives are broken down into manageable chunks. The map of objectives is framed into three broad strands: Computer science, Information Technology and Digital Literacy.

At its core is computer science, where children learn the principles of computation, programming and how digital systems work. Children use information technology to create programs, systems and a range of content. We aim to ensure that children become digitally literate, able to develop and express ideas through information and communication technology. Providing a broad and balanced online safety education at each key stage is vital to ensuring that pupils can navigate the online world safely and positively.

Computing: National Curriculum pdf

Computing: Curriculum Intent