

Intent

Computing education enables children to use and understand the technology that is changing our world. In computer science, children are taught the principles of information and computation, how digital systems work and how to put this knowledge to use through programming. Using this knowledge, children are able to use information technology to create programmes, systems and a range of content. The aim of computing also ensures that children become digitally literate, and that they are able to use technology to express themselves and their ideas. This will start the process of preparing them for the world of work. Through the study of computing, children will become responsible, competent, confident and creative users of information and communication technology.

By the end of Year 6 our children will have developed:

- **Tolerance and respect** by giving many opportunities to evaluate each other's work in a positive and constructive manner whilst showing respect for the opinions and beliefs of their peers which may differ from their own. An acceptance of the liberty of the individual to interpret and create a piece of work which may not necessarily match their own criteria is an important aspect of all computing lessons. They will learn how to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
- **Responsible citizenship** by learning specific skills within computing allowing them to develop their skills of following rules. Within the computing curriculum they also learn about algorithms, programming and control which again helps the children follow rules and shows them the importance of following simple instructions. Children also learn about internet safety and the rules they must follow to keep themselves and others safe.
- **Resilience and independence** by continuing to work on problems, collaboratively when necessary, in order to reach creative solutions.
- **A lifelong love of learning** by exploring the unlimited potential of Computing in our lives.
- **The ability to successfully self advocate and express themselves** in all situations by learning how to keep themselves safe online.
- **The desire to improve** by learning how to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.