BISHOPS ITCHINGTON PRIMARY SCHOOL

PART OF STOWE VALLEY MULTI ACADEMY TRUST

COMPUTING CURRICULUM INTENT

In our rapidly changing world technology is changing the lives of everyone. Children are using technology more in their own homes and so the curriculum must equip the children with the skills they need in our evolving society.

We aim to develop children's knowledge, skills and understanding through key computational concepts and high-quality experiences. Lessons will consider the needs of all children including children with special educational needs and those who are disadvantaged.

Children will have opportunities to use a wide range of technology, including PCs and I-pads to enhance their digital literacy and prepare them for the digital world.

We will ensure children gain the skills vital for staying safe online as well as encouraging the freedom to research, express themselves and fulfil their enquiring minds.

IMPLEMENTATION

Our school has just introduced the Purple Mash Programme to guide our curriculum together with traditional software such as Excel, Word, etc.

Key stage 1 Pupils will learn how to:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school

- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

Key stage 2 Pupils will learn 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
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

IMPACT

Our children will know how to stay on line, although we will never cease to continue educating them in this important skill.

Pupils will use ICT across their learning in a range of different of subjects.

Our children will progress through the school knowing how to use technology as an aid to enrich their knowledge, manipulate numbers, do basic programming, and feel comfortable with computing before the start secondary school.