Computing at Downview

Intent: This is why we teach what we teach:

At Downview Primary, computing is fully inclusive to every child. Our aims are to: fulfil the requirements of the National Curriculum for computing, provide a broad and balanced curriculum and ensure the progressive development of knowledge and skills.

Technology is intrinsic in everyday life and it is important that we equip children with the skills and knowledge to these technologies.

Implementation: This is what we do:

To ensure high standards of teaching and learning in computing, we implement a curriculum that is progressive throughout the whole school.

From Year 1 to Year 6, Downview aims to teach one computing lesson each week. Children have access to chrome books and laptops through which to complete learning activities. Learning is assessed throughout the year to inform final end of year assessments.

Downview School follows the scheme of work produced in Purple Mash. This scheme enables all key skills to be taught and learnt progressively throughout the school.

Key Stage 1 pupils should be taught 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 should be taught 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.

Downview School also participates in Safer Internet Day in February each year to further promote safety online and appropriate behaviour online. Downview also takes part in the UK Bebras Challenge in November which encourages computational thinking skills.

Impact: By the time children leave our school, they will:

Within computing, we strive to create a supportive and collaborative ethos for learning by providing investigative and enquiry based learning opportunities to help children gain a coherent knowledge and understanding of each unit of work covered throughout the school. Through following the computing curriculum we aim to produce learners who are literate in all aspects of the computing curriculum and are able to use technology purposefully and safely.