



*River View Primary & Nursery
School*

Computing Policy 2022-2025



Aims

At River View Primary and Nursery School in Computing, we aim to:

- provide a relevant, challenging and enjoyable curriculum for computing for all pupils;
- meet the requirements of the national curriculum programmes of study for computing;
- use computing as a tool to enhance learning throughout the curriculum;
- to respond to new developments in technology;
- to equip pupils with the confidence and capability to use computing throughout their later life;
- to develop the understanding of how to use computing safely and responsibly.

The national curriculum for computing aims to ensure that all pupils:

- can understand and apply the fundamental principles of computer science, including logic, algorithms, data representation, and communication;
- 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.



By the end of key stage 1 pupils should be taught to:

- understand what algorithms are;
- understand how they are implemented as programs on digital devices;
- understand 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.

By the end of 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.

Planning and teaching:

At River View Primary and Nursery school we implement the National Curriculum objectives through high quality Computing lessons.

Each year group will deliver the computing curriculum through modules which have been planned in line with the national curriculum and will allow for clear progression. Modules have been designed to enable pupils to achieve stated objectives.

The computing modules will help ensure curriculum coverage and a clear progression in skills from one-year group to the next. Staff will also provide pupils with plentiful opportunities to use their computing skills across other areas of the curriculum.

Pupils will have regular access to iPads and laptop computers which are maintained to a high standard.

Assessment and Monitoring:

At River View Primary School assessment is an integral part of the teaching process. Assessment is used to inform planning and to facilitate differentiation. The assessment of children's work is on-going to ensure that understanding is being achieved and that progress is being made. Feedback is given to the children as soon as possible.

Attainment is assessed summatively at the end of each unit of work against the requirements of the National Curriculum. This is reported to the next teacher. Pupils progress and attainment in the subject are reported to parents on the end of year report.

The quality of teaching and work produced will be monitored by the subject leader. Monitoring will come in the form of work samples, learning walks, data analysis and pupil/staff interviews/questionnaires. Teachers and pupils will be encouraged to showcase pieces of high quality work.