



Curriculum Intent at Manuden Primary School

Subject/Area:

COMPUTING

Rational:

At Manuden we believe that computing is an essential life skill necessary to fully participate in the modern digital world. It provides access to a rich and varied source of information and content and allows children to become creators of digital content. It communicates and presents information in new ways, which helps pupils understand, access and use it more readily. It offers opportunities for communication and collaboration both inside and outside of school and has the flexibility to meet the individual needs and abilities of each pupil.

INTENT

Ambition:

At Manuden, we recognise that pupils are entitled to a broad and balanced computing education with a structured, progressive, approach to the learning how computer systems work, the use of IT and the skills necessary to become digitally literate and participate fully in the modern world. At Manuden, all children are given opportunities to succeed in Computing. From Reception to Year 6 the concepts and key skills are built upon each year and we find exciting and innovative ways to teach these skills and then find ways across the other curriculum areas to implement them.

Concepts

All children will learn . .

- **Computer Systems and Networks:**
Pupils identify hardware and using software, will explore how computers communicate and connect to one another.
- **Programming:**
Pupils understand that a computer operates on algorithms, and learn how to write, adapt and debug code to instruct a computer to perform set tasks.
- **Creating Media:**
Pupils learn how to use various devices — record, capture and edit content such as videos, music, pictures and photographs.
- **Data Handling:**
Pupils learn to ensure that information is collected, recorded, stored, presented and analysed in a manner that is useful and can help to solve problems.
- **Online Safety:**
Pupils understand the benefits and risks of being online — how to remain safe, keep personal information secure and recognising when to seek help in difficult situations.

Along with these skills Computing safety underpins each of the skills areas so that they understand the principles of keeping safe when using new technologies both at school and at home.



Curriculum Implementation at Manuden Primary School

Subject Knowledge

The Computing Leader ensures that subject knowledge is maintained, with regular reading and research, as well as discussions with colleagues and attendance at courses. Triad working and attendance at Computer subject leader update meetings ensure subject knowledge, expectations and resourcing is continually reviewed. Through data analysis, gaps are identified and addressed throughout the year, with the Computing Leader working closely with class teachers and the Computing technician.

Subject Leadership

The Computing Leader has an interest in, and a passion for, the way technology can be used and taught in a cross curricular way alongside skills lessons. Through regular reading and research new technologies are introduced to create a fun and engaging curriculum. Data is analysed and shared regularly. Computing skills are used to support the development of skills in other subjects.

Equitable Delivery

All children are given access to the Computing curriculum, with further opportunities provided for children who may not have the technology at home to practise skills, or for other reasons.

Planning the progression model

The curriculum is planned on a two-year cycle (Year A and Year B). The school uses Kapow Computing, a whole-school scheme of work in line with National Curriculum for Computing. This scheme ensures clear learning intentions and progression throughout the school are used, along with expected outcomes and challenge. This is structured into 'milestones' that last for two years. The milestones allow for progression of skills and depth within subject strands. Curriculum coverage is mapped against long term plans to ensure there are no gaps in our curriculum.

Breadth and Depth

A broad and deep curriculum is offered, with many opportunities for the Computing skills to be used in other curriculum areas. Differentiation is achieved by emphasising deep knowledge and through individual support and intervention. In all lessons, learning objectives and success criteria are used and children have an opportunity to self-select their level of challenge.

IMPLEMENTATION OF COMPUTING

Assessment

Computing is assessed by class teachers using the Manuden Milestones and this is used to inform future planning. The teachers use the assessment descriptors to identify those pupils working at a beginning, deepening and advanced level against each key Computing skill at each milestone. The Computing Leader analyses the data to inform future provision and support as appropriate.