Computing @MANDEVILLE

Computing is my connections

Computing is embedded throughout school life at Mandeville. We show pupils not only how to interact with software and hardware, but teach them the skills to help shape the innovations of the future. Discrete lessons teach pupils increasingly complex computing skills throughout their time in school and are always made relevant to the real world and cross-curricular learning. Using technology safely and respectfully is paramount in all computing at Mandeville.	
Year 4 Curriculum	**KPI**
Discusses computer networks including the internet and the services it offers.	Understands the opportunities computer networks offer for communication whilst recognising acceptable/unacceptable behaviour (Digital Literacy)
They explore how search engines work and what influences results, evaluating search engines and using sources.	Selects, uses and combines internet services to collect data to then evaluate and analyse. (Information Technology)
Learns about the threat from computer viruses and develop understanding of intellectual property and relate this to their own content.	
They use spreadsheet software to create graphs and to explore number patterns.	
Children investigate computing storage capacities and ways of saving data. They develop understanding of the school network and operating systems.	
They select and use software to create non-linear content for specific audiences and objectives.	Designs and debugs programs, using repetition, that accomplish specific goals(Computer Science)
Children develop understanding of digital images. They transform and edit images, respecting copyright and ownership.	
They explore stop animation creating their own versions. They produce programmed animations, using sequence, repeat and selection.	
E-SAFETY Pupils and students explore what it means to be responsible to and respectful of their offline and online communities How can you protect yourself from online identity theft? Pupils and students think critically about the information they share online. In line with Keeping Children Safe in Education (2019), teachers will consider how to suitably adapt the teaching of E-Safety to ensure children with SEND and increased vulnerabilities can access information to keep themselves safe online.	Understands what it means to have stolen identity. Understands what can and should not be shared.

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Progression of vocabulary
Year 1 Device, input, output, network, datalogger, digital, algorithm, programme, internet Year 2 Email, software, hardware, virtual, database Year 3 Blogs, network, editing, simulation, debug, decompose Year 4 Search engine, virus, spreadsheet, operating system, non-linear content, copyright, animation Year 5 Graphical modelling, sensor, sequence, selection, repetition, variables, wiki Year 6 Digital footprint, multitrack recording, binary