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 6 Curriculum	**KPI**
Children investigate the concept of "big data" and its use in the world. They review file types and protection.	
They search more efficiently and investigate their digital footprints, building safe and responsible use of online spaces.	Is discerning when evaluating digital content and understand ways of reducing digital footprints (Digital Literacy)
They create and search flat-file databases, developing accuracy and efficiency.	
Children develop expertise in spreadsheets, using both formulae and functions.	Correctly selects and uses different formulae and functions in their spreadsheets/spreadsheet models (Computer Science)
They import and analyse data collected on dataloggers.	Selects, uses and combines software on a range of digital devices (Information Technology)
They use conditional formatting to vary the format of cells and create tools for specific user needs.	
They create models, identifying variables and using what-if modelling.	
Children review how digital sound is used in the world and how it has developed over time.	
They use programming languages to create their own sound clips.	
E-SAFETY: Pupils and students explore how it feels to be cyberbullied, how cyberbullying is similar to or differentthan in-person bullying, and learn strategies for handling cyberbullying when it arises. Pupils and students explore how the media can play a powerful role in shaping our ideas about girls and boys. They practice identifying messages about gender roles in two online activity zones for kids. 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.	Lists different websites where children are vulnerable when it comes to cyber-bullying. Recognises strategies of how to deal with emotions and what to do if they, or someone else is being bullied online.

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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