

## Sapphire Computing Skills Progression – Year A



My Online Life (Y3) Big Idea: Digital Literacy	I am aware of what I should be sharing online and where to go for help if I need it.	I understand that I cannot trust everyone I talk to online, that I should be a good digital citizen and where to go for help if something upsets me online.	I can explain what bullying is and know where to go for help.	I understand the impact that technology can have on my health, wellbeing and lifestyle.	I know who I should be sharing information with and how to keep my data secure.	I understand the term identity and I can take appropriate measures to protect my own online identity.
	I can analyse information and make accurate searches.	I understand the need for copyright and the consequences of ignoring it.				
Micro:bit – Electrical conductor (Y4) Big Idea: Computer Science	I can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.	I have repeated practical experience of writing computer programs in order to solve problems.	I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	I can label the different types of input connections on devices.	I can design, write and debug programs that accomplish specific goals.	I can solve problems by decomposing them into smaller parts, use sequence, selection in programs; work with various forms of input and output.
Be Digitally Awesome (Y3) Big Idea: Information Technology/ Digital Literacy.	I can troubleshoot when something doesn't appear to be working with my device.	I can discuss different types of digital content and file types.	I can improve the quality and presentation of my work.	I can create with technology e.g. video, animation 3D	I can collect, analyse, evaluate and present data and information.	
Wizard School (Y4) Big Idea: Information Technology	I can improve the quality and presentation of my work using editing and formatting techniques.	I can create with technology e.g. video, animation, 3D, illustration.	I can use a search engine and I am aware that not everything I read online is correct.			

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Hour of Code (Y4) Big idea: Computer Science	I can design an algorithm to simulate a real-life situation.	I can solve an open-ended problem by breaking it down into smaller parts.	I can design and write a program for a given purpose including specific programming features.	I can test existing programs to see how they can be improved.	I can understand the different methods of communication using the internet.	I can use conditional statements such as, "If", "When" and "Then" to achieve specific outcomes.
Dinosaurs (Y4) Big Idea: Information Technology	I can explain common file types.	I can improve the quality and presentation of my work using editing and formatting techniques: iMovie	I can create with technology e.g. video, animation, 3D, green screen.	I can use various video techniques to create a film.	I can use Green Screen to add special effects.	I can plan using a digital storyboard.