Computing KPIs

	Computer Science	Information Technology	Digital Literacy
Y1 KPIs "The child ..."	Understands that many devices follow commands, and can create and follow a simple set of commands. Understands what an algorithm is and its function. Can predict the outcome of a simple algorithm and take steps to fix one that isn't working.	Can sort, collate, edit and store simple electronic data on a digital device. Follow simple instructions to access online resources.	Understands what is meant by digital technology. Understands what information should be private and personal. Understands why it is important to be considerate and kind online.
Y2 KPIs "The child ..."	Understands algorithms must be precise, are repeatable and not always executed on digital devices. Designs simple programs, identifies errors in algorithms and uses trial and error to fix them. Can find different solutions.	Understands that a variety of programs exist to create original content. Can create, edit, store, organise and retrieve their own content.	Understands simple ways to protect personal and private information online. Understands how to communicate online, safely and considerately. Can report unsafe or inconsiderate online activity.
Y3 KPIs "The child ..."	Understands some applications of computer science in the world. Understands input and output. Can create, debug and describe a simple block language program.	Understands the function of a network and a search engine, and can execute simple searches. Can independently create digital content, and collate and present data.	Understands password security. Understands the concepts of online identity and that content can remain online indefinitely. Understands the principles of considerate conduct, safe sharing and reporting unsafe activity online.
Y4 KPIs "The child ..."	Has begun to understand sequencing, repetition and selection. Can create, debug and explain a block language program with some user interaction.	Understands different types of network, services provided by the internet and that searches can be selected, ranked and organised in different ways. Can independently create digital content, and collate and present data, selecting the most appropriate software themselves.	Understands the concept of a digital footprint and some potential consequences of online activity. Understands that online identities can be inaccurate or false. Recognises unsafe content and inappropriate activity, and identifies a variety of ways to report it.
Y5 KPIs "The child ..."	Understands sequencing, selection and repetition, and independently creates block language programs incorporating these features. Understands a range of specific inputs and outputs and incorporates these in their programs. Explains and debugs programs.	Identifies the reasons for using different digital networks, the factors affecting search results and the quality of the information retrieved. Can collect, organise, present and analyse data for a specific purpose	Understands that a digital footprint or identity can be used by others to promote advertising, agendas or malicious content. Understands what is meant by intellectual property, copyright, piracy, and fair use and distribution. Is aware of a variety of support to assist in reporting concerns.
Y6 KPIs "The child ..."	Understands sequencing, selection, repetition, inputs and outputs in a variety of real contexts. Can develop, explain and debug programs, sometimes using a different programming language.	Can identify the different protocols that are needed within digital networks. Can critically analyse and evaluate the information retrieved by search results and the factors affecting this. Can collect, organise, present, analyse and evaluate data for a specific purpose	Understands how to maintain a robust, safe and secure online presence. Understands how online content can be misleading or affected by bias. Understands how to legally, safely and fairly use others' content. Understands the potential consequences of sharing reportable online content.