

Key End Points - for end of year

Subject: Computing



	Knowledge	Skills
EYFS	I know I can use technology to find information online.	- I can use a device to interact with age-appropriate computer. - I can play with beebots and can explore how to make them move by inputting instructions.
Year 1	<u>Computer Systems and Networks</u> - I can identify a computer and its main parts, switching it on and logging on. <u>Programming</u> - I understand what an algorithm is.	<u>Computer Systems and Networks</u> - I can save my work and open my work from a file. <u>Multimedia</u> - I can use technology to write changing font type, solar and size. <u>Handling Data</u> - I can use technology to collect and group data.
Year 2	<u>Computer Systems and Networks</u> - I understand and can explain how information technology benefits us. <u>Programming</u> - I know how to create and debug simple programs.	<u>Computer Systems and Networks</u> - I can move and resize images. <u>Multimedia</u> - I can use technology to take and edit photos. <u>Handling Data</u> - I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.
Year 3	<u>Computer Systems and Networks</u> - I can explore how digital devices can be connected and can explain the role of a switch, server, and wireless access point in a network. <u>Programming</u> - I know a wider range of commands that can be used to write more complex algorithms.	<u>Multimedia</u> - I can combine text, graphics and sound in desktop publishing to suit different purposes. <u>Handling Data</u> - I can collect and present information in a branching database.
Year 4	<u>Computer Systems and Networks</u> - I can explain the function of networks including the internet. <u>Programming</u> - I know a range of tools that I can use to create a program. <u>Multimedia</u> - I recognise that not all images are real. <u>Handling Data</u> - I know how to use data loggers.	<u>Programming</u> - I can use a variety of tools to create a program using Scratch and simplify a programme when needed. <u>Multimedia</u> - I can use text, photo and sound editing tools to enhance my work. <u>Handling Data</u> - I can collect and organise data and use it to answer questions.
Year 5	<u>Computer Systems and Networks</u> - I know how sharing information online lets people in different places work together. <u>Programming</u> - I know how to write complex algorithms with 'if' and 'then' commands. <u>Handling Data</u> - I know how to use a database to ask and answer real-world questions.	<u>Programming</u> - I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program. <u>Multimedia</u> - I can capture video using a digital device and improve it through reshooting and editing. - I can create a vector drawing by combining shapes and using the appropriate tools to achieve a desired effect.
Year 6	<u>Computer Systems and Networks</u> - I can identify the benefits and negatives of digital communication. <u>Programming</u> - I can analyse and debug complex algorithms.	<u>Computer Systems and Networks</u> - I am discerning in evaluating digital content. <u>Programming</u> - I can use complex algorithms to write programs which can be transferred to physical outputs (Crumbles). <u>Multimedia</u> - I can create a web page including inserting hyperlinks. - I can use technology to insert and manipulate shapes to design a 3D model. <u>Handling Data</u> - I can use formula to complete calculations to answer questions on the data entered.