A Westdale Digital Citizen
Computing Knowledge Progression

Year 1 National Curriculum
Pupils should be taught to: • understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school • use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

What should I already know?		What I will know by the end of this learning
	Computer Science	I know that an algorithm is a set of instructions used to solve a problem or achieve an objective. I know that an algorithm written for a computer is called a program. I know how to work out what is wrong with a simple algorithm when the steps are out of order. I know how to write my own simple algorithm. I know how to make logical attempts to fix a code. I know how to predict what will happen.
	Digital Literacy + see online safety knowledge in PSHRE progression	I know how to log onto software (Purple Mash). I know how to navigate to work in the 2Do section of Purple Mash. I know the importance of keeping information private, such as my username and password. I know how to save learning in my own private space e.g. (save and hand in) on Purple Mash. I know who to tell when I see something that makes me feel uncomfortable.
	Information Technology	I know how to find saved digital learning and retrieve it. I know how to follow simple instructions to access online resources. I know how to add sound, text, a background and animations in 2Createastory.

CODE	CONNECT	COMMUNICATE	COLLECT
I know how to run a command on a device. I know how to follow an instruction. I know how to give directions	I know how to use a computer to paint a picture. I know how to select and open a programme or application.	I know how to write a message with letters, numbers, space keys and full stops on an IPad.	I know how to match objects to groups. I know how to group and count objects. I know how to group similar objects.

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I know how to find and use the commands to move a sprite.	I know how to save and close a programme or application.	I know how to use backspace to remove text. I know how to type capital letters. I know how to use 'undo' to remove change.	I know how to group objects in more than one way. I know how many objects share a property.

Year 2 - National Curriculum
CS - Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.   IT - Use technology purposefully to create, organise, store, manipulate and retrieve digital content.   DL - Recognise common uses of information technology beyond school. Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

What should I already know?		What I will know by the end of this learning	
I know that an algorithm is a set of instructions used to solve a problem or achieve an objective. I know that an algorithm written for a computer is called a program. I know how to work out what is wrong with a simple algorithm when the steps are out of order. I know how to write my own simple algorithm. I know how to make logical attempts to fix a code. I know how to predict what will happen. I know how to log onto software (Purple Mash). I know how to navigate to work in the 2Do section of Purple Mash.	**Computer Science**	I know that an algorithm is a set of instructions to complete a task. I know that algorithms need to be precise so they can be successfully converted into code. I know how to identify and correct some errors. I know the reasons for needing logical and systematic steps. I know how to write a cause-and-effect sentence of what will happen in a program (when I click the 'x', the 'x' will…).	
	Digital Literacy + see online safety knowledge in PSHRE progression	I know how to use a search engine safely. I know email shares information electronically. I recognise that images can be changed (sizes, shape, position). I know that not all pictures I see are 'real' (AI/airbrushing). I know how to report inappropriate behaviours and content to a trusted adult.	
	Information Technology	I know how to organise data. I know how to create, name, save and retrieve content by myself or with limited support. I know how to use photos, text and sound in my digital learning.	

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I know the importance of keeping information private, such as my username and password. I know how to save learning in my own private space e.g. (save and hand in) on Purple Mash. I know who to tell when I see something that makes me feel uncomfortable. I know how to find saved digital learning and retrieve it. I know how to follow simple instructions to access online resources. I know how to add sound, text, a background and animations in 2Createastory.			

Disciplinary Knowledge Y2

CODE	CONNECT	COMMUNICATE	COLLECT
I know how to choose a series of words that can be enacted as a sequence. I know how to give clear and unambiguous instructions. I know how to create different algorithms for a range of sequences (using the same commands). I know how to plan algorithms for different parts of a task. I know how to test and debug each part of the program I know how to put together the different parts of my program.	I know how to find examples of information technology (Ipad, tablet, phone, laptop, PC, gaming devices). I know that images can be changed.	I know how to open a file. I know how to move and resize images. I know some uses of information technology and how they help people. I know how to use a music program to experiment with pitch and duration.	I know how to organise, record and read data (e.g. a tally chart). I know how to use a computer program to present information in different ways (e.g. bar chart, line graph).

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