Dothill Progression Mapping



Computing

Respect Happiness Responsibility Creativity HONESTY Enthusiasm Confidence Kindness Cooperation fairness

	EYFS	Year One	Year Two
Substantive Knowledge Computer science (Algorithms and programming, data, systems)	✓ I know how to operate simple technological equipment.	 ✓ I know that instructions tell me how to make something work. ✓ I know that a robot/programmable toy can move in different directions. ✓ I know what a command is. ✓ I know that a series of commands can be joined together. ✓ I know what a sprite is. 	 ✓ I know what an algorithm is. ✓ I know what a prediction is. ✓ I know what a sequence is.
Substantive Knowledge Information Technology (Digital artefact and computing contexts)	✓ I know what a tablet is. ✓ I know what a computer is.	 ✓ I know I need to save my work. ✓ I know you can enter numbers into a computer. ✓ I know that double clicking means tap a word twice. ✓ I know what caps lock does. ✓ I know what the space bar does. ✓ I know what the toolbar is. ✓ I know the differences between painting on a computer and on paper. 	 ✓ I know how to explain how information technology helps us. ✓ I know how to use information technology safely. ✓ I know what each tool icon represents. ✓ I know that some photographs can be changed. ✓ I know why a picture may be unclear. ✓ I know what is meant by portrait and landscape format. ✓ I know that some photographs can be changed.
Substantive Knowledge Digital literacy (Mechanics, searching/ selecting information, and e- safety)	✓ I know some safer internet rules. ✓ To use 'Educated for a Connected world' to deliver: ✓ Self-image and identity ✓ Online reputation ✓ Health, well-being and lifestyle ✓ Managing online information ✓ Online bullying ✓ Online relationships ✓ Privacy and security ✓ Copyright and ownership ✓ I know that the internet can be used to communicate. ✓ I know that the internet can help me find information online. ✓ I know simple examples of my personal information (e.g. name, address, birthday, age, location). ✓ I know someone who would be trustworthy to share personal information with. ✓ I know that work I create belongs to me.	Computing systems and networks: Technology around us I know that technology is something that helps us. Self-image and identity I know to speak to an adult I can trust if sad/worried. Online reputation I know what information I should not put online without asking a trusted adult first. I know that information can stay online and could be copied. Health, well-being and lifestyle Managing online information I know how to find information using digital technologies, e.g. search engines, voice activated searching. I know that we can encounter a range of things online including things we like and don't like as well as things which are real or make believe / a joke.	Computing systems and networks: IT around us I know what information technology (IT) is. I know how information technology helps us. Online bullying I know what bullying is, how people may bully others and how bullying can make someone feel. Online relationships I know who I should ask before sharing things about myself or others online. I know why I have a right to say 'no' or 'I will have to ask someone'. I know who can help me if I feel under pressure to agree to something, I am unsure about or don't want to do. Privacy and security I know that online information about me could be seen by others. I know what is meant by 'private' and 'keeping things private' online. Copyright and ownership I know that content on the internet may belong to other people.

Disciplinary Knowledge Computer science (Algorithms and programming, data, systems)	 ✓ I can show an interest in real objects that involve technology. ✓ I can show skill in making toys work by pressing parts to achieve effects (sound, light, movement, showing of images). 	 ✓ I can control the movement of a floor robot using commands. ✓ I can use more than one command. ✓ I can run my program. ✓ I can use a start block in a program. 	 ✓ I know how to begin to debug any errors in code. ✓ I know how to follow a sequence. ✓ I can explain what happens when we change the order of instructions. ✓ I can create a list of instructions to make things happen well. ✓ I can control and debug commands for programmable toys. ✓ I can identify several possible solutions to a problem. 		
Disciplinary Knowledge Information Technology (Digital artefact and computing contexts) Disciplinary Knowledge	 ✓ I can interact with a computer or tablet to make something happen successfully. ✓ I can interact with age-appropriate computer software. ✓ I know how to turn on and off a device. 	 ✓ I can open a word processor. ✓ I can use a computer to write. ✓ I can recognise keys on a keyboard. ✓ I can identify and find keys on a keyboard. ✓ I can enter text into a computer. ✓ I can use letter, number, and space keys. ✓ I know how to change the text's appearance. ✓ I know how to 'undo' my actions. ✓ I can compare typing on a computer to writing on paper. ✓ I can select appropriate colours, brush sizes, and brush ✓ tools to independently create an image. ✓ I know how to make lines/marks on a screen and can explain which tools I used. ✓ I know how to use the paint tools to draw a picture. ✓ I can identify a computer and its main parts. 	 ✓ I know how to use a digital device to take a photograph. ✓ I can recognise the uses and features of information technology. ✓ I can identify the uses of information technology in the school. ✓ I can identify information technology beyond school. ✓ I can recognise that choices are made when using information technology. 		
Digital literacy (Mechanics, searching/ selecting information, and e- safety)	stop' / 'I'll tell' / 'I'll ask' to somebody who asks me to do something that makes me feel sad, embarrassed or upset. I can give examples of how I (might) use technology to communicate with people I know. I can identify ways that I can put information on the internet. I can describe ways that some people can be unkind online and can offer examples of how this can make other feel.	 ✓ I know how to use a mouse in different ways. ✓ I can use a keyboard to type and edit on a computer. ✓ I can recognise that there may be people online who could make someone feel sad, embarrassed, or upset. ✓ I can identify rules that help keep us safe and healthy in and beyond the home when using technology. ✓ I know how to get help from a trusted adult if we see content that makes us feel sad, uncomfortable worried or frightened. 	technology. I can explain why anyone who experiences bullying is not to blame. I can talk about how anyone experiencing bullying can get help. I know how someone might use technology to communicate with others they don't also know offline and explain why this might be risky. (e.g. email, online gaming, a pen-pal in another school / country). I can explain how passwords can be used to protect information, accounts and devices. I can explain how some people may have devices in their homes connected to the internet and give examples (e.g. lights, fridges, toys, televisions)		
Vocabulary Computer Science		Program Sprite Backwards Command Forwards Direction Run	Instructions Algorithm Prediction Sequence Debug Control		
Vocabulary Information Technology		Light Image Compose Focus Photograph Capture Portrait Lens Landscape	Paint Line Picture Draw Mark Image Tools Fill Shape		
Vocabulary Digital Literacy		Identity Consent Voice activated Online Devices searching Avatar Search engines Content Information Real/make believe Rules Trusted adult Webpage Safe Offline Healthy	Bullying Trusted Private Online Trust-worthy Belonging Unkind Passwords Save work Upset Protect Created Personal information		