Emerald Computing Skills Progression – Year A

Computer Science — Programming

Digital Literacy — Online Safety

Information Technology — Purpose and creativity

My Online Life (Y1) Big Idea: Digital Literacy	I can describe how to behave online in ways that do not upset others and can give examples.	I understand something online may upset me/others and know where to find help if it does.	I can use the internet with adult support to communicate with someone I know.	I can explain why it is important to be considerate and kind to people online.	I can explain what personal information is and give examples of it.	I can use the internet to find things out using key words when using a search engine.
What is a computer? (Y1) Big Idea: Information Technology and Computer Science	I can recognise ways we use technology in our classroom, my home and community.	I can recognise and name the different parts of a computer.	I can use technology to create and present my ideas and I can organise, store and retrieve my digital work.	I can follow a simple algorithm and create a simple sequence algorithm using symbols that solve a problem (unplugged).	I can create algorithms that can be turned into a program using a robot or digital device.	I can use logical reasoning to predict the outcome of simple programs and I can independently debug simple sequence errors in a program.
Mini Beasts (Y1) Big Idea: Information Technology	I can take a good quality photograph and video on an iPad.	I can organise, store and retrieve my digital work.	I can collect, sort and record data digitally.	I can use technology to create and present my ideas: drawing, voice recording, videoing, creating graphs.	I can use a search engine to find and save images and to research information about the images I have found.	I can record a video to show what I have found out in a creative way.
Maths Madness (Y2) Big Idea: Information Technology	I can find and scan a QR code to find information and explain what a QR code is.	I can create with technology: I can illustrate a maths problem using technology.	I can save, share and retrieve my digital work.	I can collaboratively make a QR scavenger hunt for others around the school.	I can share my work with others and listen to feedback from them.	I can use technology to organise and present my ideas.
My Friend the Robot (Y1) Big idea: Computer Science	I can follow a simple algorithm and create a simple sequence algorithm using symbols that solve a problem.	I can create algorithms that can be turned into a program using a robot or digital device.	I can explain what a robot is, what it might be used for and why it might be used for that purpose.	I can use logical reasoning to predict the outcome of simple programs	I can independently debug simple sequence errors in a program.	I can use technology to create and present my ideas.
Online Buddies (Y2) Big Idea: Digital Literacy	I can use design and formatting to enhance my digital work when showing what communicating digitally is and the ways we do it.	I can give examples of how technology is used to communicate beyond school	I am aware that content online is owned by the person that created it – copyright.	I can explain who I should communicate online with and the things it is okay to talk about and I can use online services to communicate safely.	I know the rules of using technology at home or in school.	I can explain what personal information is and understand the need for passwords to protect it.

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	I understand that things online may upset me and I cannot trust everyone online.	I can use a search engine and I am aware that not everything I read online is true.	I can give examples of online bullying behaviour. I understand the impact it may have and I know where to go to for support.	I understand that once something is posted, you lose control of it and know how to get help if I need to.		