Computing Curriculum and Knowledge Map

LKS2

Programming Quizzes

I can Describe that a sequence of commands has an outcome – basic
I can Identify the sequence of blocks needed to achieve an outcome - Advancing
I can Propose ways to improve a program by debugging or adding features - Deep

Digital Music

I can Experiment with and create sound using a computer – basic
I can Identify a rhythm that fits a purpose – advancing
I can Propose ways to improve my work – advancing

Pictograms

I can List different ways that data can be collected (eg. Tally chart) - Basic
I can Present information about data collected in a pictogram – Advancing
I can Draw conclusions from a pictogram - Deep

Robot Algorithms

I can Describe a series of instructions as a sequence – Basic
I can Explain what happens when we change the order of instructions – Advancing
I can Select instructions to design an algorithm that meets a goal, debugging where needed - Deep

YEAR 2

Programming Animations

I can Create a series of commands to move a sprite – Basic
I can Create an appropriate design for a project based on a plan – Basic
I can Explain and show how to add an algorithm for more than one sprite – Advancing

IT Around Us

I can List examples of some uses of information technology – Basic
I can Describe the uses of Information technology - Basic
I can Summarise and Explain how IT devices work together and the need to use IT in different ways – Advancing

Digital Photography

I can Describe what makes a good photograph – Basic
I can Create digital media by manipulating our own I can photographs - Basic
I can Compare a range of different devices used for taking photographs – Advancing

Digital Writing

I can Label and find keys on a keyboard – basic
I can Create text on a computer using letter, number, space and backspace keys – basic
I can Explain tools that can be used to change a text – advancing

YEAR 1

Grouping Data

I can List objects in different ways and name objects with similarities – Basic
I can Describe a group of objects and compare different groups - Basic
I can Identify how to group objects to answer a question, recording what I have found - Advancing

Moving a Robot

I can Describe what a given command will do – Basic
I can Create a sequence using forwards and backwards/the four directions - Basic
I can Explain what my program should do and debug if needed - Advancing

Digital Painting

I can Name different tools available for digital painting: Freehand tools, line, shape, fill - Basic
I can Create a picture online in the style of an artist – Basic
I can Compare painting a picture on a computer to on paper – Advancing

Technology Around Us

I can Name the main parts of a computer – Basic
I can Describe the function of a mouse and a keyboard - Basic
I can Identify rules for using technology responsibly in and beyond the home – Advancing

FS2

In EY, through enhanced provision, children have the opportunity to explore a range of technology in their environment including, IWB, iPads (including cameras), role play phones, boom box, remote controls, Beebots.