

Autumn 1 Understanding Technology - Computing systems & network – technology & Online Safety (Project Evolve - Self-image & identity, online relationships)

Knowledge I know...	Skills I can...	Links back to I remember...
<ul style="list-style-type: none"> It is important to be safe when using the internet, laptops and iPads. To use kiddle when searching online. To search sensibly and not to deliberately look for or send anything unpleasant online. Who can help me if something happens online without my consent. That some IT can be used in more than one way Some uses of IT. Some rules for safe use of IT. How to use some IT for different activities. 	<ul style="list-style-type: none"> identify examples of computers and that they are part of information technology (IT). describe some uses of computers. sort school IT by what it is used for. identify and find examples of IT. sort IT by where it is found. talk about uses of IT. demonstrate how IT devices work together. say why we use IT. talk about different rules for using IT and say how they can help keep me safe. identify the choices that are made when using IT explain the need to use IT in different ways explain how other people may look and act differently online and offline. 	<ul style="list-style-type: none"> My teacher using kiddle to search online to find information. Programming Beebots to move around a map. An algorithm is a precise instruction. Digital art is a type of art made using technology. Constructing a pictogram and/or block diagram using 2graph as a class.

Vocabulary:	Images:
<p>Kiddle: an online search engine for children.</p> <p>Barcode: a machine-readable code in the form of numbers and a pattern of parallel lines of varying widths, printed on and identifying a product.</p> <p>Computer: A programmable machine that accepts and processes inputs and produces outputs (input, process, output; IPO)</p> <p>Information Technology (IT): The study, use, and development of computer systems for storing, processing, retrieving, and sending information. A computer or something that works with a computer.</p> <p>Keyboard: allows us to enter text into a iPad, computer.</p> <p>Scanner/Scan: an optical scanner that can read printed barcodes and send the data they contain to computer</p>	

Spring 2 Programming Programming B - ScratchJr – quizzes & Online safety (Safer Internet Day & Online Reputation, Managing Online Information)

Knowledge I know...	Skills I can...	Links back to I remember...
<ul style="list-style-type: none"> An algorithm is a precise set of ordered steps. A program is a set of ordered commands that can be run by a computer to achieve a task. Debugging is finding and fixing a problem. A sequence needs a start and an outcome. Changing blocks in a program will change the outcome. To follow our HIS Golden Rules online. Who to ask for help if I am worried about something I see/receive online. 	<ul style="list-style-type: none"> Identify the start of a sequence and run my program. Predict the outcome of a sequence of commands Change the sequence of commands and change the outcome. Create and change a program with a given design. Create a program of my own design. Select the correct tools. Say what I would change about my program to improve it. Explain how information put online about someone can last a long time. Explain what voice activated searching is and how it might be used, and know it is not a real person e.g. Alexa, Google Now, Siri 	<ul style="list-style-type: none"> Programming a Beebot with support How to stay safe online Using an iPad to create a picture

Vocabulary:	Images:
<p>Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task.</p> <p>Beebot: a programmable robot</p> <p>Block: a movement</p> <p>Debugging: finding and fixing a problem with a program.</p> <p>Program: a set of ordered commands that can be run by a computer to complete a task.</p> <p>Code: The commands a computer can run.</p> <p>Command: a single instruction that can be used in a program to control a computer.</p> <p>Retrieve: find information stored in a computer.</p> <p>Run: to action the commands in a program.</p> <p>Tool: a device used to carry out a particular job.</p> <p>Save: store for future use.</p> <p>Sequence: the order in which commands are performed to achieve a task.</p> <p>Sprite: the main characters of the project.</p> <p>Value: the way to change a variable in a block.</p>	

Summer 2 Digital Literacy, Creating Media – Digital Photography & Online safety (Project Evolve - Health, Wellbeing & Lifestyles, Privacy & Security)

Knowledge I know...	Skills I can...	Links back to I remember...
<ul style="list-style-type: none"> • That photos can be taken on a range of technological devices. • Common uses of technological devices in and beyond school. • You have choices when taking photos. (eg to take a landscape or portrait photo) • How a photo can be improved. • How to find out the best lighting levels for producing good quality photographs. • Photos can be changed and that not all images are real. 	<ul style="list-style-type: none"> • Use an iPad to take a photo. • Compose and capture good photos. • Make suggestions on how to improve my photo. • Use tools to change an image. • Say what the best lighting source is for a photo I retake. • Use the autofocus to make an object in the photo stand out. • Identify someone who can help me, if something happens online without my consent. • Explain simple guidance for using technology in different environments and settings e.g. accessing online technologies in public places and the environment. • Describe and explain some rules for keeping personal information private e.g. creating and protecting passwords. 	<ul style="list-style-type: none"> • Using an iPad to write. • Using different tools to make changes and improve my writing. • That I have to get help from an adult if I see something which upsets me online.

Vocabulary:	Images:
<p>Background: the area or scenery behind the main object Camera: a device for recording visual images. Capture: cause data to be stored in a digital format. Compose: create or set up Digital device: a computer or a device with a computer inside that has been programmed for a specific task Editing: modifying or making changes Filter: a function used to alter the overall appearance of an image Flash: a brief bright light used for taking photos in poor light Focus: producing clear visual definition Landscape: screen display which is wider than it is high. Lighting: the arrangement or effect of lights. Photograph: is a picture made using a camera, printed or stored digitally Portrait: screen display which is higher than it is wide</p>	 