Computing Progression of Skills

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Key Computer Skills	● Login with support ● Shut down chromebooks ● Control mouse /trackpad accurately ● Open documents ● Understand how documents are saved ● Open and close programs ● Use capital letters ● Use backspace to delete text	● Login independently ● Share documents with others ● Highlight text to delete or edit ● Take screenshots ● Use the undo and redo buttons ● Use key vocabulary to demonstrate knowledge and understanding – colour, tools, setting, undo, redo	● Create new Google Forms ● Share a URL	● Type with increasing speed and accuracy ● Check spelling and grammar errors ● Create a spreadsheet ● Organise documents into folders	● Use spell check ● Change page orientation	● Know which programs to select to accomplish a given goal
Text and Multimedia	● Use Drawings to create images ● Use different tools to paint/draw ● Edit a drawn image ● Insert images ● Delete text (from templates to insert own text) ● Insert text ● Edit text colour and size ● Move and resize images	● Import photos into documents ● Edit photos using appropriate software ● Crop photos ● Add new Slides to a presentation ● Add text boxes and headings ● Copy images from a search engines ● Change backgrounds (basic colours)	● Upload video clips ● Sort video clips ● Know how to edit video clips to include audio ● Add title clips to videos ● Know how to adjust speed of footage ● Add titles to charts ● Create slide templates ● Set presentation themes	● Add text to a website ● Add images to a website ● Edit text on a website ● Enter data into a table ● Copy and paste tables ● Add text to photos	● Add pages to a website ● Stick to a design template when adding content to pages ● Insert hyperlinks to webpages ● Embed media from other websites to a Google Site ● Add audio or video to a site ● Navigate 3D environments using	● Use line spacing ● Use bullets points ● Create columns

Creating Digital Content and using a range of devices			• Use slide transitions • Use hyperlinks in slides • Know how to insert audio or video to slides		orbit, pan and zoom • Draw 2D shapes and create 3D shapes • Import pictures and objects	
	• Take simple photos and videos using iPads	• Take photos using iPads and chromebooks • Delete images from camera roll • Upload photos to Google Drive • Open audio files • Use simple software to record sounds	• Take videos using an iPad • Experiment with close up videos, zooming and panning out	• Know how to use play, pause and record buttons (Soundtrap) • Select, move and copy audio • Record sounds • Change pitch and add effects such as echo to audio clips • Export clips • Add music to clips • Use a range of weather measuring equipment	• Create a virtual environment • Add animations • Create an animated walkthrough of a gallery	• Know how to use a range of video shots – close-ups, long shots, mid-shots. Low-angle shots and wide shots • Use a range of editing techniques to edit films eg animations and transitions • Convert and publish a video safely
Handling Data		• Add content to simple tables	• Understand criteria that can be used in a survey • Know how to use different question and answer types in Google Forms • Create a survey • Convert Google Forms Data into Google Sheets • Create charts using data	• Use a range of data logging equipment • Create tables using Google Sheets • Use tables to create charts • Select appropriate charts to use • Format and edit graph titles and labels	•	• Identify cells using rows and columns • Use formula to add, subtract, multiply and divide or find averages • Adjust height and width of columns and rows • Know how to copy and paste formula by dragging • Sort data alphabetically

						● Add rows and columns
Electronic Communication		● Know to only open emails from known senders ● Open emails ● Open attachments including audio files Understand the different fields in an email ● Understand email addresses and domain names ● Send emails	● Communicate feedback through Google Classroom	● Create a website to share information with others ● Know how work can be shared across a platform	● Share a range of content via a website	● Share videos online safely
Research and Online Safety	● Use a safe search to research images ● Understand what to do when 'bad' images appear online	● Search images around specific topics safely ● Understand why we wouldn't post personal photos publicly ● Use preselected websites to search for information ● Understand that not all information on the Internet is accurate ● Know to only open emails from known senders	● Know that information shared online can be stored by others	● Understand wikis and how others can add to the content ● Assess wikis for accuracy ● Identify accurate sources for research ● Begin to understand copyright	● Evaluate websites for quality and bias ● Consider some of the ways in which safety or privacy can be compromised by using the Internet ● Have a stronger understanding of copyright	● Know where is a safe place to share videos ●

Understanding Technology (including Internet and networks)	• Understand that technology can be used to create digital content • Recognise how technology is used to communicate with others • Show an awareness of the range of devices and tools they encounter in everyday life.	• Understand what different devices can be use to take photographs • Know how emails are important for communication • Show an awareness of a range of inputs to a computer (IWB, mouse touch screen, microphone, keyboard, etc.). • Begin to show an awareness that computers can be linked to share resources.	• Understand about digital footprints and that information we leave online	• Know how data can be collected • Understand that data is uploaded to be analysed • Recognise a wider range of devices that are used	• Know a range of search engines that are used • Understand how Google search engine works • Understand how websites are ordered – 'Page Rank' • Recognise the use of virtual environments • Understand how the school's network and Internet is possible through connections between computers • Begin to understand IP addresses • Begin to recognise how data is transferred • Understand domain names	• Evaluate websites for their reliability • Have a greater understanding of the digital footprints that are left and the impact that they can have
Coding	• Follow instructions to move around a space • Record a set of instructions for a toy	• Have a clear understanding of algorithms as sequences of instructions	• Recognise that some instructions have to be completed in a set order and that this is true when programming	• Recognise how to program codes for different sprites • Use the controlled loop command to draw shapes	• Use 'condition-starts-action' codes and 'condition-switches-between-actions' codes.	• Use repeated procedures • Use repeated procedure within nested loops

	• Program a toy to move by giving a set of instructions • Begin to debug a simple program • Predict how simple programs will work	• Convert simple algorithms to programs • Predict what a simple program will do • Spot and debug errors in their programs. • Use logical reasoning to make predictions of what a program will do • Test these predictions	• Understand how to adapt a code and recognise how it changes the program • Begin to debug errors in a code • Read code and predict what will happen • Understand the different types of blocks used to code • Solve problems	• Modify codes to change details of the shape • Design and create codes continuous loops are needed	• Use forever loops with a program to test conditions	• Use placeholder variables with codes