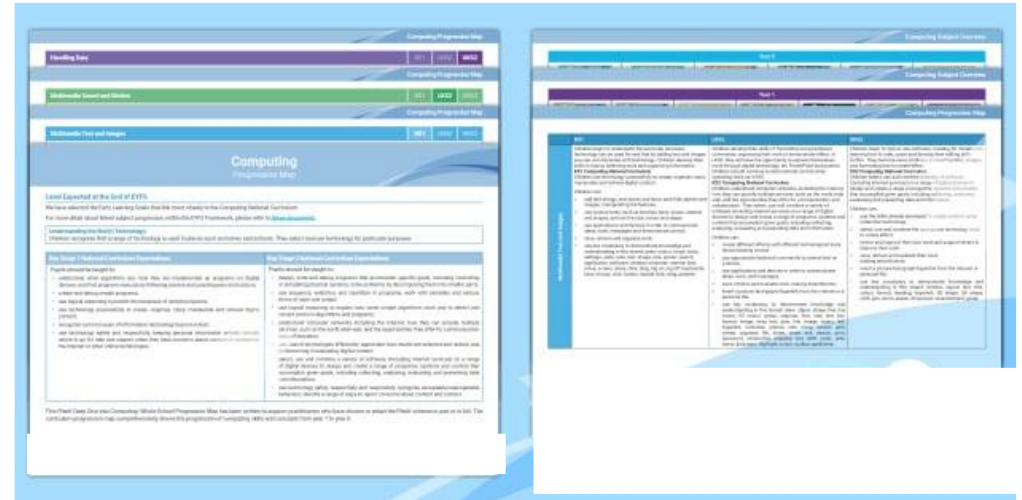# Computing
Software and Hardware Requirements

PlanIt Computing: Software and Hardware Requirements Year 1 - Year 6

This document provides an overview of the software requirements and main hardware needed to teach each of the PlanIt Computing units. Please see each pack for any non-digital resources required.

It is assumed that devices have a connection to the Internet and a web browser as most units involve Internet connectivity for at least part of them. You will also need a suitable search engine for several units.
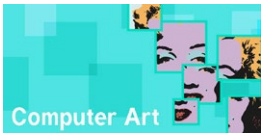
Please check with specific software providers for current guidance on whether it is compatible with your specific device, web browser and for any software cost (most suggested are free).
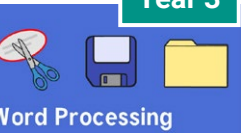
To look at the resources for each unit, simply click on the unit image in the table below. Alternatively, to view all the units.

To look at the Deep Dive into Computing:

Whole-School Progression Map please _____ These documents show the progression of computing skills and concepts from year 1 to year 6 and how each unit links to the national curriculum aims.

KS1 | LKS2 | UKS2

Year 1

	Online Safety	Computer Skills	Painting	Programming Toys	Programming with ScratchJr	Word Processing Skills	Using and Applying
Software	• Simple painting application • School email accounts		• Simple painting application		• ScratchJr app	• Word processor	• Word processor • Simple painting application
Hardware	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• Tablets with cameras • Bee-Bot or similar programmable toy	• Tablets	• PC devices, such as laptops, Chromebooks and/or tablets • Visualiser or webcam	• PC devices, such as laptops, Chromebooks and/or tablets

Year 2

	Online Safety	Technology Around Us	Computer Art	Preparing for Turtle Logo	Presentation Skills	Programming Turtle Logo and Scratch	Using and Applying
Software			• Painting application	• Presentation application		• Turtle Logo application (several available - installed or online) • Scratch (installed or online)	• Painting application • Scratch (installed or online) • Presentation application
Hardware	• PC devices, such as laptops, Chromebooks and/or tablets	• A range of technology and information technology should be available within school for children to investigate.	• PC devices, such as laptops, Chromebooks and/or tablets		• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets

| | KS1 | LKS2 | UKS2 |

Year 3

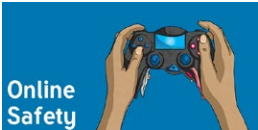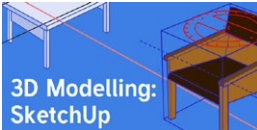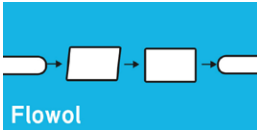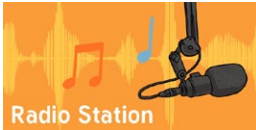|	Online Safety	Online Searchers and Surfers	Coding with Scratch: Learning Loops	Drawing and Desktop Publishing	Presentation Skills	Programming Turtle Logo and Scratch	Word Processing
Software	• School email accounts (optional)	• Presentation or word processing software. • Access to web browsers and safe child-friendly search engines.	• Scratch Online version	• Drawing application (see unit for more detail) • Desktop publishing software	• Presentation application (with ability to add in audio/video - see unit for more detail)	• Turtle Logo application (several available - installed or online) • Scratch (installed or online)	• Word processor
Hardware	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets • Visualiser/webcam	• PC devices, such as laptops, Chromebooks and/or tablets • Built-in or plug-in microphones	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets • Visualiser or webcam

Year 4

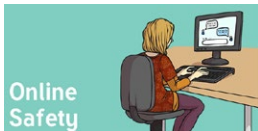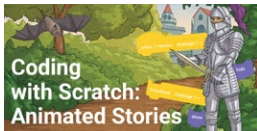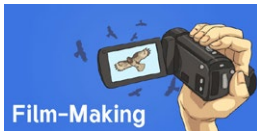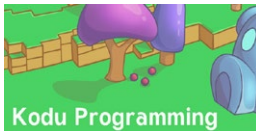|	Online Safety	Communication and Collaboration	Animation	Programming Turtle Logo	Scratch: Questions & Quizzes	Word Processing	Using and Applying Skills
Software		• Access to Google accounts including Gmail and Google Drive or • Access to Microsoft accounts including Outlook and OneDrive	• Pivot Animator (for Windows) • Moviesoup (for Windows)	• Turtle Logo application (several available - installed or online)	• Scratch (installed or online)	• Word processor	• Depending on project chosen: desktop publishing software, word processor, painting application, animation software, Scratch, video editing software
Hardware	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• Depending on project chosen: desktop computers, laptops, Chromebooks, tablets, cameras, scanner

| KS1 | LKS2 | UKS2 |

Year 5

	Online Safety	Strategic Searching Online	3D Modelling: SketchUp	Flowol	Radio Station	Scratch 3.0 Developing Games (Updated Content!)	Using and Applying Skills
Software	• Photo editing software • Comic strip software (optional)	• Access to web browsers and safe child-friendly search engines.	• SketchUp (free version for schools with G Suite for Education or Microsoft Education account)	• Flowol (to be purchased and installed)	• Audacity	• Scratch 3 (installed or online)	• A combination of (see previous year 5 units for more detail): SketchUp, Audacity, Flowol, Scratch, Microsoft Office/ Google Docs or similar
Hardware	• Desktop computers, laptops, Chromebooks or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• Windows PC or Apple Mac computers	• PC devices, such as laptops running Windows or MacOS • Built-in or plug-in microphones • Speakers or headphones	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops and/or Chromebooks • Built-in or plug-in microphones • Speakers or headphones

Year 6

	Online Safety	Know Your Network	Coding with Scratch: Animated Stories	Film-Making	Kodu Programming	Spreadsheets	Using and Applying Skills
Software		• Access to web browsers.	• Scratch Online version	• Word processor • Video editing software	• Kodu Game Lab	• Microsoft Excel but can be adapted for other spreadsheet software	• Microsoft Excel (or other spreadsheet software), Scratch or Kodu Game Lab, video editing software
Hardware	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets • Built-in or plug-in microphones	• PC devices, such as laptops, Chromebooks and/or tablets • Digital video cameras and/or tablets • Microphones (if required) • Large screen or whiteboard	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets	• PC devices, such as laptops, Chromebooks and/or tablets • Video recording equipment (tablets, digital video cameras, microphones)