KS2 Computing Long Term Plan

	Computing National Curriculum - KS2 Subject Content	Year 3	Year 4	Year 5	Year 6
Programming	(1) design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts (2) use sequence, selection, and repetition in programs; work with variables and various forms of input and output (3) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	**Badge:** Programming ** **Time:** 2 half terms **Hardware/Software:** Coding – Espresso Coding	**Badge:** Programming *** **Time:** 2 half terms **Hardware/Software:** Lego Make and plug in to make go Make and program using computer.	**Badge:** Programming **Time:** 2 half terms **Hardware/Software:** Coding – Hour of code	**Badge:** Programming **** **Time:** 2 half terms **Hardware/Software:** Coding - Scratch
Using data	(6) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information And (4), (5)	**Badge:** Using Data * **Time:** 1 half term **Hardware/Software:** Excel, Numbers Entering and organising data into a spread sheet. Simple adding and subtracting formula. Cell, row and column vocab, adding borders	**Badge:** Using Data ** **Time:** 1 half term **Hardware/Software:** Excel, Numbers Entering, organising, sorting and filtering data Simple formula Duplicating cells and formula Create simple graphs	**Badge:** Using Data *** **Time:** 1 half term **Hardware/Software:** Excel, Numbers Same as Y4 and: More complex formula and graphs Putting (table and graph) into a document/presentation	**Badge:** Using Data **** **Time:** 1 half term **Hardware/Software:** Log-it, Excel, Numbers Collect using Log-it Apply formula Make graph
Publishing	(6) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information And (4), (5), (7)	**Badge:** Publishing ** **Time:** 1 half term **Hardware/Software:** Word, Pages, Publisher Produce a leaflet. To include writing and pictures on both sides of paper.	**Badge:** Publishing *** **Time:** 1 half term **Hardware/Software:** Word, Pages, Publisher Produce a piece of work e.g. Menu to include pictures, word art, table, stylised text, etc.	-	**Badge:** Publishing **** **Time:** 1 half term **Hardware/Software:** Word, Pages, Publisher Produce newspaper page without using a template. To include columns, headline, 3 text sizes, font features, picture with caption.
Digital Media Graphics and	(6) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information And (4), (5), (7)	**Badge:** Graphics and Digital Media ** **Time:** 2 half terms **Hardware/Software:** iPads, Ditgal Camera, desktop computer, photo edditng software Take and edit photos, Record sound Record film on flip cam	**Badge:** Graphics and Digital Media *** **Time:** 1 half term **Hardware/Software:** iPads, Ditgal Camera, desktop computer, photo edditng software, iMovie, movie maker Take and edit photos, Put into movie maker Add titles, credits, sounds, transitions	**Badge:** Graphics and Digital Media **** **Time:** 2 half terms **Hardware/Software:** iPads, Ditgal Camera, desktop computer, photo edditng software, iMovie, movie maker Own animation (from still shots) (story boards)	**Badge:** Presenting **** Graphics & Digital Media **** **Independent Project** **Time:** 2 half terms
Presenting	(6) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information And (4), (5), (7)	-	**Badge:** Presenting *** **Time:** 1 half term **Hardware/Software:** Publisher Hyperlinks, animation, slide transitions, sounds, inserting pictures and video clips/podcasts taken themselves	-	
Internet	(7) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. And (4), (5)	E-safety day	E-safety day	**Badge:** Internet *** **Time:** 1 half term **Hardware/Software:** Cyber Cafe Email and Cyber Bullying E-safety day	**Badge:** Internet **** E-safety day

Across the year, the units for your year group must be covered. This can be done in any order, linking to topic etc. where appropriate.

These objectives can be covered alongside the relevant unit and in other curriculum subjects when the network or internet is used:

(4) understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration