





Domain	LKS2	UKS2
	Children develop their skills of formatting using keyboard commands, organising their work to demonstrate effect. In LKS2, they will have the opportunity to express themselves more through digital technology, art, PowerPoint and posters. Children should continue to demonstrate control when operating tools as in KS1.	Children begin to look at new software, creating 3D models and learning how to orbit, zoom and develop their editing skills further. They become more confident in inserting links, images and formatting text to create effect.
	KS2 Computing National Curriculum	KS2 Computing National Curriculum
	Children 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. They 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.	Children 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.
Computing Multimedia Text and Images	<ul> <li>Children can:</li> <li>create different effects with different technological tools, demonstrating control;</li> <li>use appropriate keyboard commands to amend text on a device;</li> <li>use applications and devices in order to communicate ideas, work, and messages;</li> <li>save, retrieve and evaluate work, making amendments;</li> <li>insert a picture/text/graph/hyperlink from the internet or a personal file;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: draw, object, shape, line, line colour, fill colour, group, ungroup, font, size, text box, format, image, wrap text, plan, link, image, object, link, hyperlink, minimise, restore, size, move, screen, split, create, organise, file, folder, close, exit, search, print, password, screenshot, snipping tool, shift, undo, redo, menu, dictionary, highlight, cursor, toolbar, spellcheck</li> </ul>	<ul> <li>Children can:</li> <li>use the skills already developed to create content using unfamiliar technology;</li> <li>select, use and combine the appropriate technology tools to create effect;</li> <li>review and improve their own work and support others to improve their work;</li> <li>save, retrieve and evaluate their work, making amendments;</li> <li>insert a picture/text/graph/hyperlink from the internet or personal file;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: window, layout, text, font, colour, format, heading, hyperlink, 2D shape, 3D shape, orbit, pan, zoom, eraser, dimension, measurement, guide.</li> </ul>







# Domain LKS2 UKS2

Children develop their editing skills further by cropping, organising and arranging film clips. They are able to share work and offer feedback and ideas for improvement with animation and film, giving their opinion on which software to use. In LKS2, children also look at the history of animation and reflect upon the changes over time.

### **KS2** Computing National Curriculum

Children 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.

### Children can:

- use software to record, create and edit sounds and capture still images;
- change recorded sounds, volume, duration and pauses;
- use software to capture video for a purpose;
- crop and arrange clips to create a short film;
- plan an animation and move items within each animation for playback;
- use key vocabulary to demonstrate knowledge and understanding in this strand: audio, sound, video, movie, embed, link, file format, animate, animation, still image, thaumatrope, zoetrope, zoopraxiscope, stereoscope, flip book, frame, onion skinning, loop, frame rate, record, stop, play, stop motion, stop frame.

Children begin to look more into multimedia broadcasting, learning new skills including recording jingles, podcasts and narration. They become more confident in post-production with editing, trimming and refining their work based on plans they have made.

### **KS2** Computing National Curriculum

Children 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.

### Children can:

- collect audio from a variety of resources including own recordings and internet clips;
- use a digital device to record sounds and present audio;
- trim, arrange and edit audio levels to improve quality;
- publish their animation and use a movie editing package to edit/refine and add titles;
- use key vocabulary to demonstrate knowledge and understanding in this strand: audio, record, edit, play stop, skip, waveform, input, output, record, edit, play podcast, digital content, downloadable, backing track, voiceover, mute, gain, production, post-production, documentary, project, evaluation, screening, ceremony, upload.

**Multimedia Sound and Motion** 

CREATED: 02/2023







Domain

### LKS2

Children begin to explore expressing information in tables, sorting and organising information for others to be able to understand.

### **KS2** Computing National Curriculum

Children 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.

### Children can:

- talk about the different ways data can be organised;
- sort and organize information to use in other ways;
- search a ready-made database to answer questions;
- use key vocabulary to demonstrate knowledge and understanding in this strand: Google Docs, insert, table.

Data Handling in UKS2 focuses on selecting the correct method to display data and using software such as spreadsheets. Children also learn how to check the accuracy of data and compare data for a specific purpose.

UKS2

### KS2 Computing National Curriculum

Children 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.

### Children can:

- construct data on the most appropriate application;
- know how to interpret data, including spotting inaccurate data and comparing data;
- use keyboard shortcuts and functions to input data on spreadsheets and create formulas for spreadsheets;
- add data to an existing database;
- use key vocabulary to demonstrate knowledge and understanding in this strand: Google Docs, insert, table, spreadsheet, cell, row, column, formula/formulas, calculate, format, edit, insert, ascending, descending.

Handling Data

CREATED: 02/2023







## Domain

LKS2

Children refer to online safety rules when discussing technology in their lives. They are able to navigate between websites and use safe search terms on trusted search engines. They become more confident in using email for communication, including attaching and saving files from emails.

### **KS2** Computing National Curriculum

Children 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. They use search technologies effectively, appreciate how results are selected and ranked, and are discerning in evaluating digital content.

### **Children can:**

- explain ways to communicate with others online;
- describe the world wide web as the part of the internet that contains websites;
- add websites to a favourites list;
- use search tools to find and use an appropriate website and content;
- use strategies to improve results when searching online;
- use key vocabulary to demonstrate knowledge and understanding in this strand: filter, Google, search engine, image, keyboard, email, subject, address, communicate, sender, safe, secure, internet, world wide web, social media.

Children can use safe search terms on trusted search engines, and evaluate websites based on layout and information. They become more confident in understanding Google rankings, adverts and the reliability of websites.

UKS2

### **KS2** Computing National Curriculum

Children 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. They use search technologies effectively, appreciate how results are selected and ranked, and are discerning in evaluating digital content.

### Children can:

- search for information using appropriate websites and advanced search functions within Google;
- use strategies to check the reliability of information (cross-check with another source such as books);
- talk about the way search results are selected and ranked;
- check the reliability of a website, including the photos on site;
- tell you about copyright and acknowledge the sources of information;
- use key vocabulary to demonstrate knowledge and understanding in this strand: world wide web, search, search engine, advanced search, results, Google, browser, terms of use, bias, authority, citation, plagiarism, source, website, secure, https, site, domain, website, browser, address bar.

**Technology in Our Lives** 







 Domain
 LKS2
 UKS2

 Children build on their programming skills by solving problems and programming commands to achieve a specific outcome. They begin to write programs, explain algorithms and identify errors in their work.
 Children build on their programming skills by using new systems such as a flowchart. They continue to break down problems and create algorithms to solve them. They are able to explain the outcome of an algorithm with confidence and

### KS2 Computing National Curriculum

Children design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; they solve problems by decomposing them into smaller parts. They use sequence, selection, and repetition in programs and work with variables and various forms of input and output. They use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

### Children can:

- use logical thinking to solve an open-ended problem by breaking it up into smaller parts;
- write a program, putting commands into a sequence to achieve a specific outcome;
- give a set of instructions to follow and predict what will happen;
- keep testing a program and recognise when it needs to be debugged;
- use variables to create an effect, e.g. repetition, if, when, loop;
- use key vocabulary to demonstrate knowledge and understanding in this strand: decompose, decomposing, logical sequence, flowchart, sprite, block, command, algorithm, answer, correct, errors, program, algorithm, instructions, commands, forward (fd), left (lt), right (rt), move, turn, clear screen (cs), variable.

### **KS2** Computing National Curriculum

Children design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; they solve problems by decomposing them into smaller parts. They use sequence, selection, and repetition in programs and work with variables and various forms of input and output. They use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

### Children can:

accuracy.

- use external triggers and infinite loops to demonstrate control;
- follow a sequence of instructions, e.g. in a flowchart and modify a flowchart using symbols;
- use conditional statements and edit variables;
- decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program;
- keep testing a program and recognise when it needs to be debugged;
- use key vocabulary to demonstrate knowledge and understanding in this strand: flowchart, algorithm, control, output, symbol, start, stop, delay, process, decision, loop, backdrop, script, block, repeat, commentary, sequence, consequence, debug, program, Kodu, world, object, tool palette, program environment, smooth, flatten, raise.

**Coding and Programming** 







Domain LKS2	UKS2
Children become more aware of their digital for experience on the internet. They are able to un appropriate websites and adverts and how adv. Children are also introduced to the concept of p <b>KS2 Computing National Curriculum</b> Children use technology safely, respectfully and acceptable/unacceptable behaviour and identific concerns about content and contact. <b>Children can:</b> • reflect on their own digital footprint an • identify what is appropriate and inappri- internet, recognising the term cyberbul • agree and follow sensible online safety sharing information, storing passwords; • seek help from an adult when they see or worrying; • demonstrate understanding of age-app • use key vocabulary to demonstrate kno strand: safe, meet, accept, reliable, tell, information, safety, personal, internet, message, social media, email, password plagiarism, profiles, account, private, pu	<ul> <li>the risks and consequences for people online. They begin to think more critically about what they see online and look at the concept of fake news and false photographs.</li> <li>KS2 Computing National Curriculum</li> <li>Children use technology safely, respectfully and responsibly. They recognise acceptable/unacceptable behaviour and identify a range of ways to report concerns about content and contact.</li> <li>Children can: <ul> <li>protect their password and other personal information;</li> <li>be a good online citizen and friend;</li> <li>judge what sort of privacy settings might be relevant to reducing different risks;</li> <li>seek help from an adult when they see something that is unexpected or worrying;</li> <li>discuss scenarios involving online risk;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: spam, link, privacy, virus, scam, phishing, inbox, junk, sender, subject, secure, safe, account, online, private, social media, adverts, cyberbullying/bullying,</li> </ul> </li> </ul>

Computing Progression Grid