

Subject: Computing	By the end of KS1	By the end of LKS2	By the end of UKS2
Subject: Computing Multimedia text and images	<ul> <li>add text strings, text boxes and show and hide objects and images, manipulating the features;</li> <li>use various tools, such as brushes, pens, eraser, stamps and shapes, and set the size, colour and shape;</li> <li>use applications and devices in order to communicate ideas, work, messages and demonstrate control;</li> <li>save, retrieve and organise work;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: paint, colour, brush, tools, settings, undo, redo, text, image, size, poster,</li> </ul>	<ul> <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</li> </ul>	<ul> <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:</li> </ul>
	launch, application, software, window, minimise, restore, size, move, screen, close, click, drag, log on, log off, keyboards, keys, mouse,	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,	window, layout, text, font, colour, format, heading, hyperlink, 2D shape, 3D shape, orbit, pan, zoom, eraser, dimension, measurement, guide.

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	click, button, double click, drag, present.	create, organise, file, folder, close, exit, search, print, password, screenshot, snipping tool, shift, undo, redo, menu, dictionary, highlight, cursor, toolbar, spellcheck.	RANARYS
Multimedia sound and motion	<ul> <li>use software to record sounds;</li> <li>change sounds recorded;</li> <li>save, retrieve and organise work;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: commands, add sound.</li> </ul>	<ul> <li>use software to record, create and edit sounds and capture still images;</li> <li>change recorded sounds, volume, duration and pauses;</li> <li>use software to capture video for a purpose;</li> <li>crop and arrange clips to create a short film;</li> <li>plan an animation and move items within each animation for playback;</li> <li>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.</li> </ul>	<ul> <li>collect audio from a variety of resources including own recordings and internet clips;</li> <li>use a digital device to record sounds and present audio;</li> <li>trim, arrange and edit audio levels to improve quality;</li> <li>publish their animation and use a movie editing package to edit/refine and add titles;</li> <li>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.</li> </ul>
Handling data	•	talk about the different     ways data can be	construct data on the most appropriate application;

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		organised;  • sort and organise 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.	<ul> <li>know how to interpret data, including spotting inaccuratery data and comparing data;</li> <li>use keyboard shortcuts and functions to input data on spreadsheets and create formulas for spreadsheets;</li> <li>add data to an existing database;</li> <li>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.</li> </ul>
Technology in our lives	<ul> <li>recognise ways that technology is used in the home and community, e.g. taking photos, blogs, shopping;</li> <li>use links to websites to find information;</li> <li>recognise age-appropriate websites;</li> <li>use safe search filters;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: filter, Google, search engine, image, keyboard, email, internet, subject,</li> </ul>	<ul> <li>explain ways to communicate with others online;</li> <li>describe the world wide web as the part of the internet that contains websites;</li> <li>add websites to a favourites list;</li> <li>use search tools to find and use an appropriate website and content;</li> <li>use strategies to improve results when searching online;</li> <li>use key vocabulary to demonstrate knowledge and</li> </ul>	<ul> <li>search for information using appropriate websites and advanced search functions within Google;</li> <li>use strategies to check the reliability of information (cross-check with another source such as books);</li> <li>talk about the way search results are selected and ranked;</li> <li>check the reliability of a website, including the photos on site;</li> <li>tell you about copyright and</li> </ul>

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	address, communicate, sender, safe, secure.	understanding in this strand: filter, Google, search engine, image, keyboard, email, subject, address, communicate, sender, safe, secure, internet, world wide web, social media.	acknowledge the sources 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.
Coding and programming	<ul> <li>give commands one at a time to control direction and movement, including straight, forwards, backwards, turn;</li> <li>control the nature of events: repeat, loops, single events and add and delete features;</li> <li>give a set of instructions to follow and predict what will happen;</li> <li>improve/change their sequence of commands by debugging;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: algorithm,</li> </ul>	<ul> <li>use logical thinking to solve an open-ended problem by breaking it up into smaller parts;</li> <li>write a program, putting commands into a sequence to achieve a specific outcome;</li> <li>give a set of instructions to follow and predict what will happen;</li> <li>keep testing a program and recognise when it needs to be debugged;</li> <li>use variables to create an effect, e.g. repetition, if, when, loop;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: decompose, decomposing, logical sequence, flowchart, sprite, block, command,</li> </ul>	<ul> <li>use external triggers and infinite loops to demonstrate control;</li> <li>follow a sequence of instructions, e.g. in a flowchart and modify a flowchart using symbols;</li> <li>use conditional statements and edit variables;</li> <li>decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program;</li> <li>keep testing a program and recognise when it needs to be debugged;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: flowchart, algorithm, control, output, symbol, start, stop, delay, process, decision, loop,</li> </ul>

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	instruction, order, debug, program, turn, left, right, clockwise, anticlockwise, blocks, sequence, project, repeat, repeat forever, invisible, grow, shrink.	algorithm, answer, correct, errors, program, algorithm, instructions, commands, forward (fd), left (lt), right (rt), move, turn, clear screen (cs), variable.	backdrop, script, block, repeat, commentary, sequence, consequence, debug, program, Kodu, world, object, tool palette, program environment, smooth, flatten, raise.
Online safety	<ul> <li>identify what things count as personal information;</li> <li>identify what is appropriate and inappropriate behaviour on the internet;</li> <li>agree and follow sensible online safety rules, e.g. taking pictures, sharing information, storing passwords;</li> <li>seek help from an adult when they see something that is unexpected or worrying;</li> <li>demonstrate how to safely open and close applications and log on and log off from websites;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: safe, meet,</li> </ul>	<ul> <li>reflect on their own digital footprint and behaviour online;</li> <li>identify what is appropriate and inappropriate behaviour on the internet, recognising the term cyberbullying;</li> <li>agree and follow sensible online safety rules, e.g. taking pictures, sharing information, storing passwords;</li> <li>seek help from an adult when they see something that is unexpected or worrying;</li> <li>demonstrate understanding of age-appropriate websites and adverts;</li> <li>use key vocabulary to demonstrate knowledge and understanding in this strand: safe, meet, accept, reliable,</li> </ul>	<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, reporting, anonymous, victim, fraud/fraudulent, policy, private/personal.</li> </ul>

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	accept, reliable, tell, online, trusted, adult, information, safety, personal, key, question, tell, safe, share, stranger, danger, internet.	tell, online, trusted, adult, information, safety, personal, internet, world wide web, communicate, message, social media, email, password, cyberbullying/bullying, plagiarism, profiles, account, private, public.			



#### Key stage 1

Pupils should be taught to:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

#### Key stage 2

Pupils should be taught to:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- 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
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content



- 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
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.