

Skill	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Wor Child a rai usec hom sele tech	erstanding the I'ld (Technology) dren recognise that nge of technology is d in places such as les and schools. They let and use nnology for particular coses.	objects and images, manipulat b use various tools, s stamps and shapes, and set th c use applications an communicate ideas, work, mes control; d save, retrieve and e use key vocabulary and understanding in this stro settings, undo, redo, text, ima	ad that by adding text and with technology. Children selecting tools and organising culum sefully to create, organise, e digital content. Lext boxes and show and hide ring the features; such as brushes, pens, eraser, he size, colour and shape; didevices in order to isages and demonstrate corganise work; to demonstrate knowledge and: paint, colour, brush, tools, age, size, poster, launch, minimise, restore, size, move, on, log off, keyboards, keys,	LKS2, they will have the oppo more through digital technolo posters. Children should conti when operating tools as in KS. KS2 Computing National Curri Children understand computer internet; how they can provid world wide web, and the opport communication and collaborate combine a variety of software on a range of digital devices the programs, systems and content including collecting, analysing, and information. Children can: a create different estechnological tools, demonstrate technological tools, demonstrate in the same communicate ideas, work, and a save, retrieve and amendments; e insert a picture/teinternet or a personal file; f use key vocabulary and understanding in this stratine colour, fill colour, group, format, image, wrap text, plai hyperlink, minimise, restore, screate, organise, file, folder,	ork to demonstrate effect. In ortunity to express themselves by, art, PowerPoint and inue to demonstrate control 1. iculum r networks, including the le multiple services, such as the ritunities they offer for ion. They select, use and e (including internet services) to design and create a range of int that accomplish given goals, evaluating and presenting data beffects with different lating control; eyboard commands to amend and devices in order to a limessages; evaluate work, making ext/graph/hyperlink from the lating to the lime, ungroup, font, size, text box, in, link, image, object, link, size, move, screen, split, close, exit, search, print, ing tool, shift, undo, redo, menu,	and learning how to orbit, zoc skills further. They become n links, images and formatting KS2 Computing National Curr Children select, use and comb (including internet services) of design and create a range of that accomplish given goals, it evaluating and presenting dat Children can: a use the skills alread content using unfamiliar tech be select, use and contechnology tools to create efficient content to improve their work of the save, retrieve and making amendments; e insert a picture/teinternet or personal file; f use key vocabulary	more confident in inserting text to create effect. iculum bine a variety of software on a range of digital devices to programs, systems and content including collecting, analysing, it and information. The developed to create including the appropriate if ect; e their own work and support; evaluate their work, ext/graph/hyperlink from the if to demonstrate knowledge and: window, layout, text, font, rlink, 2D shape, 3D shape,



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	Reception Understanding the World (Technology) Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.	Children begin to develop technology through record also begin to develop their of the tools. KS1 Computing National Na	their creativity using ding sound. Children will rediting skills and control urriculum urposefully to create, e and retrieve digital sounds; d; nise work; emonstrate knowledge and	Children develop their ed cropping, organising and a are able to share work an for improvement with anii opinion on which software also look at the history of upon the changes over tin K52 Computing National Children select, use and a software (including interr digital devices to design a programs, systems and co given goals, including colle and presenting data and in Children can: a. use software to record and capture still images; b. change recorded sound pauses; c. use software to captured. crop and arrange clips see, plan an animation and manimation for playback;	iting skills further by rranging film clips. They d offer feedback and ideas mation and film, giving their to use. In LK52, children f animation and reflect ne. Curriculum ombine a variety of net services) on a range of and create a range of intent that accomplish acting, analysing, evaluating information. I, create and edit sounds so, volume, duration and e video for a purpose; to create a short film; hove items within each demonstrate knowledge and and: audio, sound, video, irmat, animate, animation, zoetrope, zoopraxiscope,	Children begin to look more broadcasting, learning new jingles, podcasts and narro confident in post-producti and refining their work ba made. KS2 Computing National Contildren select, use and consoftware (including international devices to design and programs, systems and congiven goals, including collect and presenting data and in Children can: a. collect audio from a varown recordings and international collect audio; c. trim, arrange and edit and quality; d. publish their animation of package to edit/refine and e. use key vocabulary to defunderstanding in this straight.	re into multimedia r skills including recording ation. They become more ion with editing, trimming ised on plans they have urriculum ombine a variety of et services) on a range of ind create a range of intent that accomplish cting, analysing, evaluating information. iety of resources including et clips; ecord sounds and present audio levels to improve and use a movie editing d add titles; emonstrate knowledge and ind: audio, record, edit, input, output, record, edit, int, downloadable, backing in, production, post-



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Handling Data	Understanding the World (Technology) Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.			tables, sorting and organ to be able to understand KS2 Computing National Children select, use and software (including inter digital devices to design programs, systems and a given goals, including coll and presenting data and Children can: a talk about the organised; b sort use in other ways; c database to answer quest d use key vocabu	Curriculum combine a variety of rnet services) on a range of and create a range of content that accomplish lecting, analysing, evaluating information. different ways data can be and organise information to search a ready-made	and presenting data and in Children can: a construct data of application; b know how to interprete spotting inaccurate data of a cuse keyboard shinput data on spreadsheet spreadsheets; d add data to an e	data and using software dren also learn how to a and compare data for a surriculum ombine a variety of et services) on a range of and create a range of antent that accomplish cting, analysing, evaluating aformation. In the most appropriate surpret data, including and comparing data; ortcuts and functions to s and create formulas for existing database; any to demonstrate ling in this strand: Google alsheet, cell, row, column,



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Understanding the World (Technology) Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particula purposes. Technology in our lives	lives, making links to learn KS1 Computing National Computing Common beyond school. They use they identify where to go they have concerns about internet or other online to Children can: a. recognise ways that techome and community, e.g. shopping; b. use links to websites to c. recognise age-appropried. use safe search filters;	classroom. They begin to of using technology in their ing about online safety. urriculum in uses of technology echnology safely and onal information private; for help and support when content or contact on the echnologies. Thoology is used in the taking photos, blogs, find information; ite websites; emonstrate knowledge and ind: filter, Google, search mail, internet, subject,	technology in their lives. between websites and use trusted search engines. To confident in using email for attaching and saving files KS2 Computing National Children understand compute internet; how they casuch as the world wide we they offer for communication they use search technolo how results are selected discerning in evaluating discerning in evaluating discerning in evaluating discerning in evaluating discerning the world wide internet that contains we c. Add websites to a favord. Use search tools to fin website and content; e. Use strategies to impronline; f. Use key vocabulary to confine;	e safe search terms on They become more or communication, including from emails. Curriculum outer networks, including in provide multiple services, eb, and the opportunities ation and collaboration. gies effectively, appreciate and ranked, and are igital content. Inicate with others online; le web as the part of the bsites; urites list; d and use an appropriate over results when searching demonstrate knowledge and and: filter, Google, search email, subject, address,	in understanding Google reliability of websites. K52 Computing National Children understand compthe internet; how they casuch as the world wide we they offer for communication of the internet; how they casuch as the world wide we they offer for communication of the communication of	ate websites based on hey become more confident rankings, adverts and the Curriculum puter networks, including an provide multiple services, eb, and the opportunities ation and collaboration. The opicial content. using appropriate websites ations within Google; with another source such are results are selected and are a website, including the the and acknowledge the demonstrate knowledge and and: world wide web, vanced search, results, fuse, bias, authority, see, website, secure, https,





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Coding and Programming	Children begin to understatechnology by developing the technology by developing the technology by developing the determine output. They be algorithm is a series of stand a code is a series of stand and a code is a program that programs execute by unambiguous instructions. Use logical reasoning to prosimple programs. Children can: a. give commands one at a and movement, including stand and movement, including stand and movement, including stand and and delete c. give a set of instruction what will happen; d. improve/change their set by debugging; e. use key vocabulary to de understanding in this strain order, debug, program, turanticlockwise, blocks, sequirepeat forever, invisible, general code in the	their programming skills to egin to understand that an eps for solving problems teps that machines can plore debugging, predicting and changing them. urriculum algorithms are, how they ams on digital devices, and following precise and They create, debug and edict the behaviour of time to control direction traight, forwards, wents: repeat, loops, single features; s to follow and predict equence of commands emonstrate knowledge and and: algorithm, instruction, an, left, right, clockwise, wence, project, repeat,	problems and programmin specific outcome. They be explain algorithms and ide K52 Computing National Children design, write and accomplish specific goals, simulating physical system decomposing them into sm sequence, selection, and r work with variables and woutput. They use logical resome simple algorithms we correct errors in algorith Children can: a. use logical thinking to sproblem by breaking it up b. write a program, puttin sequence to achieve a spec. give a set of instruction what will happen; d. keep testing a program needs to be debugged; e. use variables to create if, when, loop; f. use key vocabulary to dunderstanding in this strodecomposing, logical sequeblock, command, algorithm	egin to write programs, entify errors in their work. Curriculum description debug programs that including controlling or ans; they solve problems by analler parts. They use repetition in programs and arious forms of input and easoning to explain how ork and to detect and and programs. Tolve an open-ended into smaller parts; ag commands into a scific outcome; as to follow and predict and recognise when it an effect, e.g. repetition, demonstrate knowledge and and: decompose, ence, flowchart, sprite, an, answer, correct, errors, actions, commands, forward	Children build on their pronew systems such as a flow break down problems and them. They are able to exalgorithm with confidence KS2 Computing National Children design, write and accomplish specific goals, simulating physical system decomposing them into sm sequence, selection, and rework with variables and valution output. They use logical resome simple algorithms we correct errors in algorithm Children can: a. use external triggers and demonstrate control; b. follow a sequence of instead flowchart and modify a flowchar	wichart. They continue to create algorithms to solve plain the outcome of an and accuracy. urriculum debug programs that including controlling or is; they solve problems by aller parts. They use expetition in programs and irious forms of input and easoning to explain how ork and to detect and ins and programs. Indinfinite loops to tructions, e.g. in a powchart using symbols; into sand edit variables; to smaller parts to design to outcome and use this to and recognise when it emonstrate knowledge and indictions flowchart, algorithm, art, stop, delay, process, cript, block, repeat, insequence, debug, eact, tool palette, program



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Online Safety	internet and learn about themselves safe and who so. They also compare a inappropriate activity a decide what to do next KS1 Computing National Children can use technorespectfully, keeping poprivate; they identify would support when they have content or contact on to online technologies. Children can: a. identify what things information; b. identify what is apprinappropriate behaviour	hy it is important to do appropriate and on the internet and it. Il Curriculum ology safely and ersonal information where to go for help and e concerns about the internet or other count as personal ropriate and ron the internet; sible online safety rules, aring information, lult when they see pected or worrying; safely open and close and log off from the demonstrate anding in this strand: iable, tell, online, tion, safety, personal,	the internet. They are more about age-appropadverts and how adver companies. Children are concept of plagiarism KS2 Computing Nation Children use technolog and responsibly. They acceptable/unacceptal identify a range of war about content and con Children can: a. reflect on their own behaviour online; b. identify what is appinappropriate behaviour recognising the term of c. agree and follow ser e.g. taking pictures, sh storing passwords; d. seek help from an asomething that is uneven demonstrate undersappropriate websites of use key vocabulary the knowledge and undersafe, meet, accept, re	g on their experience on able to understand priate websites and ats are used by the also introduced to the and citation. It is compared to the and citation and Curriculum and safely, respectfully recognise and be behaviour and and aropriate and aropriate and aropriate and aropriate and aron the internet, experbullying; asible online safety rules, maring information, and adverts; to demonstrate tranding in this strand: liable, tell, online, artion, safety, personal, teb, communicate,	to think more critically online and look at the cand false photographs. National Curriculum Children use technology and responsibly. They racceptable/unacceptable identify a range of way about content and cont Children can: a. protect their passwe information; b. be a good online citiz c. judge what sort of prelevant to reducing did. seek help from an accommething that is unexe. discuss scenarios involved the seek of the seek help from the something that is unexely insert the seek help from an accommething that is unexely insert the seek help from an accommething that is unexely insert the seek help from an accommething that is unexely insert the seek help from an accommething that is unexely insert the seek help from an accommething that is unexely insert the seek help from an accommething that is unexely insert the seek help from an accommendation in the seek help from	nowledge of the risks people online. They begin about what they see concept of fake news KS2 Computing y safely, respectfully recognise ble behaviour and as to report concerns act. and and other personal gen and friend; rivacy settings might be fferent risks; full when they see pected or worrying; folving online risk; o demonstrate anding in this strand: as, scam, phishing, inbox, secure, safe, account, hedia, adverts, g, anonymous, victim,



	cyberbullying/bullying, plagiarism, profiles,	
	account, private, public.	