

Year 5 Computing Overview - Information Tech

Computing Strand	NC Objectives	Skills/Knowledge	Date covered			
Word Processing/ Typing	Co2/I.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.	<ul style="list-style-type: none"> I can start to apply other useful effects to my documents such as hyperlinks. I can import sounds to accompany and enhance the text in my document. I can organise and reorganise text on screen to suit a purpose 				
Data Handling		<ul style="list-style-type: none"> I can create and publish my own online questionnaire and analyse the results. I can use simple formulae to solve calculations including =sum and other statistical functions I can edit and format difference cells in a spreadsheet. 				
Presentations, web design and eBook Creation		<ul style="list-style-type: none"> I can collaborate with peers using online tools, e.g. blogs, Google Drive, Office 365 I can create and export an interactive presentation including a variety of media, animations, transitions and other effects. I can create an interactive guide to a image by embedding digital content and publishing it online. I can create a webpage and embed video. 				
Animation		<ul style="list-style-type: none"> I can record animations of different characters and edit them together to create an interview. I can add green screen effects to a stop motion animation. I can create flip book animation using digital drawings and export as a Gif or video 				
Video Creation		<ul style="list-style-type: none"> I can use cutaway and split screen tools in iMovie. I can evaluate and improve the best video tools to best explain my understanding. I can further improve green screen clips using crop and resize and explore more creative ways to use the tool - wearing green clothes and the masking tool. 				
Photography and Digital Art		<ul style="list-style-type: none"> I can make a digital photo using camera settings I can enhance digital photos and images using crop, brightness and resize tools I can link and explain how to photoshop images and how this is used in the media 				
Augmented Reality and Virtual Reality		<ul style="list-style-type: none"> I can create an interactive VR experience. I can create an animated object and bring it into my surroundings through AR I can create an AR experience using objects I have created to explain a concept. 				
Sound		<ul style="list-style-type: none"> Add voice over and edit sound clips (volume, pitch, fade, effect) to create a podcast. Create a remix of a popular song. 				

Year 5 Computing Overview - Computer Science

Computing Strand	NC Objectives	Skills/Knowledge	Date covered			
Computational Thinking	<ul style="list-style-type: none"> Co2/1.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Co2/1.2 use sequence, selection, and repetition in programs; work with variables and various forms of input and output 	<ul style="list-style-type: none"> I can solve problems by decomposing them into smaller parts I can use selection in algorithms I can recognise the need for conditions in repetition within algorithms I can use logical reasoning to explain how a variety of algorithms work I can use logical reasoning to detect and correct errors in algorithms I can evaluate my work and identify errors 				
Coding and Programming	<ul style="list-style-type: none"> Co2/1.3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Co2/1.4 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 	<ul style="list-style-type: none"> I can create programs by decomposing them into smaller parts I can use selection in programs I can use conditions in repetition commands I can work with variables I can create programs that control or simulate physical systems I can evaluate my work and identify errors 				
Computer Networks	<ul style="list-style-type: none"> Co2/1.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 	<ul style="list-style-type: none"> I understand how we view web pages on the Internet I use search technologies effectively I understand that web spiders index the web for search engines I appreciate how pages are ranked in a search engine 				

Digital Literacy/ESafety - Education For a Connected World Objectives

<u>NC Objectives</u>	<u>Year 5</u>	<u>Skills</u>	<u>Date Covered</u>			
Co2/1.7 use technology safely, respectfully and responsibly; recognise acceptable/ unacceptabl e behaviour; identify a range of ways to report concerns about content and contact	Self Image and Identity	<ul style="list-style-type: none"> • I can explain how identity online can be copied, modified or altered. • I can demonstrate responsible choices about my online identity, depending on context. 				
	Online Relationships	<ul style="list-style-type: none"> • I can explain that there are some people I communicate with online who may want to do me or my friends harm. I can recognise that this is not my/our fault. • I can make positive contributions and be part of online communities. • I can describe some of the communities in which I am involved and describe how I collaborate with others positively. 				
	Online Reputation	<ul style="list-style-type: none"> • I can search for information about an individual online and create a summary report of the information I find. • I can describe ways that information about people online can be used by others to make judgments about an individual. 				
	Online Bullying	<ul style="list-style-type: none"> • I can recognise when someone is upset, hurt or angry online. • I can describe how to get help for someone that is being bullied online and assess when I need to do or say something or tell someone. • I can explain how to block abusive users. • I can explain how I would report online bullying on the apps and platforms that I use. • I can describe the helpline services who can support me and what I would say and do if I needed their help (e.g. Childline). 				

Digital Literacy/ESafety - Education For a Connected World Objectives

NC Objectives	Year 5	Skills	Date Covered		
Co2/I.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	Managing Online Information	<ul style="list-style-type: none"> • I can use different search technologies. • I can evaluate digital content and can explain how I make choices from search results. • I can explain key concepts including: data, information, fact, opinion belief, true, false, valid, reliable and evidence. • I understand the difference between online mis-information (inaccurate information distributed by accident) and dis-information (inaccurate information deliberately distributed and intended to mislead). I can explain what is meant by 'being sceptical'. • I can give examples of when and why it is important to be 'sceptical'. I can explain what is meant by a 'hoax'. • I can explain why I need to think carefully before I forward anything online. • I can explain why some information I find online may not be honest, accurate or legal. • I can explain why information that is on a large number of sites may still be inaccurate or untrue. I can assess how this might happen (e.g. the sharing of misinformation either by accident or on purpose). 			
Co2/I.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Health ,Well-being and Lifestyle	<ul style="list-style-type: none"> • I can describe ways technology can affect healthy sleep and can describe some of the issues. • I can describe some strategies, tips or advice to promote healthy sleep with regards to technology 			
	Privacy and Security	<ul style="list-style-type: none"> • I can create and use strong and secure passwords. • I can explain how many free apps or services may read and share my private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others. • I can explain how and why some apps may request or take payment for additional content (e.g. in-app purchases) and explain why I should seek permission from a trusted adult before purchasing. 			
	Copyright and Ownership	<ul style="list-style-type: none"> • I can assess and justify when it is acceptable to use the work of others. • I can give examples of content that is permitted to be reused. 			