



Lower KS2 Computing

Computing			
	Information Technology	Digital Literacy	Computer Science
Year 3	<p><u>Images, Video and Animation</u></p> <ul style="list-style-type: none"> Use a range of devices to capture still and moving images for a purpose. Be able to use basic tools in a software package to change images according to purpose. Begin to understand how images from different sources are used to enhance a presentation or communicate an idea. <p><u>Texts and Images</u></p> <ul style="list-style-type: none"> Recognise the features of good page design and multimedia presentations. Consider how design features meet the needs of the audience e.g. poster, newspaper, menu, instructions. Understand that some tasks and problems require a variety of software tools to accomplish them. <p><u>Digital Research</u></p> <ul style="list-style-type: none"> Talk about and describe the process of finding specific information, noting any difficulties during the process and how these were overcome. Understand that information found as a result of a search can vary in relevance. Understand that provision is made in schools to filter. Understand when and where the internet can be used as a research tool. <p><u>Data Handling</u></p>	<p><u>Electronic Communications</u></p> <ul style="list-style-type: none"> Understand that computer networks can be used for communication. Understand that some emails and other forms of electronic communications may be malicious or inappropriate and recognise when an attachment may be unsafe to open. Respect the ideas and communications of others they encounter online. <p><u>E-Safety</u></p> <ul style="list-style-type: none"> Understand how to stay safe when talking to people online and know how to stay respectful. Begin to use advanced internet searching to explore whether the internet can be used to authenticate facts. Explore the benefits of using a strong password. Develop knowledge of how to create a positive online reputation and how technology can impact on health. 	<p><u>Programming</u></p> <ul style="list-style-type: none"> Understand how to plan and write programs that accomplish specific goals. Know what debugging is and how it can be used to achieve specific goals. Understand what the term sequence and repetition means. Understand that planning is a vital part of designing programs. <p><u>Simulations</u></p> <ul style="list-style-type: none"> Use a pre-prepared spreadsheet to record data to answer questions and produce graphs. Change the contents of cells in a pre-prepared spreadsheet and explore the consequences.



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	<ul style="list-style-type: none"> ▪ Begin to identify what data should be collected to answer a specific question. ▪ Understand that there are different types of data. ▪ Recognise similarities and differences between ICT and paper-based systems. ▪ Create frequency diagrams and graphs to answer questions. ▪ Talk about the advantages of using IT to sort, interrogate and classify information quickly. 		
Year 4	<p>Data Handling</p> <ul style="list-style-type: none"> ▪ Use a database to answer straight forward questions by searching, matching and ordering the contents of a single field. ▪ Compare different charts and graphs and understand that different ones are used for different purposes. ▪ Know, understand and use the vocabulary: file, record, field, sort and search. ▪ Collect data and enter it under appropriate field headings. ▪ Understand that effective yes-/no questions are key to organising data efficiently in a branching database. <p>Images, Video and Animation</p> <ul style="list-style-type: none"> ▪ Acquire, store and retrieve images from camera for a purpose. ▪ Be able to resize various elements in a graphics or paint package. ▪ Be able to resize images ▪ Storyboard, then use captured images to create a short animated sequence which communicates 	<p>E-Safety</p> <ul style="list-style-type: none"> ▪ Gain further understanding of online bullying and how to get help. ▪ Be aware of 'fake news' and learn how to assess what they read. Learn the skills to help them determine if something is real or fake. ▪ Develop knowledge of whether how they can control their online reputation. Understand how technology can have a negative impact on people's lives. <p>Electronic Communications</p> <ul style="list-style-type: none"> ▪ Begin to publish their work to a wider audience. 	<p>Programming</p> <ul style="list-style-type: none"> ▪ Know the difference between an input and an output. ▪ Understand how to use logical reasoning to detect errors in programs. ▪ Understand how to use logical reasoning to correct errors in programs. ▪ Understand that evaluation is a vital part of the design process.



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a specific idea.

Sound

- Talk about software which allows the creation and manipulation of sound and music.
- Understand that many types of sounds can be combined in editing software.

Create, Manage and Manipulate Digital Content

- Recognise the features of good page design and multimedia presentations.
- Consider how design features meet the needs of the audience e.g. poster, newspaper, menu, instructions.