


Year 8 Digital Literacy	Curriculum Intent: Computing consists of three strands: Computational Thinking, Computer Science and Digital Literacy. Within Digital Literacy, we seek to enable students to become confident, secure, and safe users of Information Technologies, whether these are smart phones, laptops / personal computers, or tablets. Students will discover how to organise their work safely and learn how to effectively the Microsoft Office 360 suite of programs, which the school provides for them to use both in school and at home. Students also learn how to use ICT safely and legally through e-safety and finally, we will look at the impact the use of computers have on the ethical, moral and environment lives of all of us, and the legislation which seeks to mitigate some of those issues.			
Digital Literacy Year 8:	Term 1 Spreadsheets	Term 2 Photoshop and Internet	Term 3 Issues and Mobile App Development	
	Spreadsheets Warmup <ul style="list-style-type: none"> • Formulas and Functions Data Modelling <ul style="list-style-type: none"> • Conditional Formatting • Data Validation Costing, Forecasting and Formatting <ul style="list-style-type: none"> • Forecasting data Data Visualization <ul style="list-style-type: none"> • Macros • Infographics • Charts Web site design: <ul style="list-style-type: none"> • Layout • Web page components (e.g., navigation bar, Search bar, hyperlinks) • Planning tools 	Photoshop <ul style="list-style-type: none"> • Exploring photoshop • Clone tool • Stamp tool • Magic wand • Mask tool • Grid • Photoshop games The Internet and World Wide Web <ul style="list-style-type: none"> • World wide web • Browser • Search Engine • Website • Connectivity • Web address • Top level domains 	Consequences of using computers <ul style="list-style-type: none"> • e-waste • other environmental issues (e.g., power consumption) • ethical issues (replacing humans) • impact of copyright / piracy • privacy – use of “Big data” Legal Issues: <ul style="list-style-type: none"> • Data Protection Act • Computer Misuse Act Copyright, Designs and Patents Mobile App development <ul style="list-style-type: none"> • Application • Development • Decompose • Programming 	
Key knowledge / Retrieval topics	Be able to use spreadsheet to store, manipulate and analyse data including skills: <ul style="list-style-type: none"> • formatting data • using formulas and functions • using charts and graphs • using Macros and VLOOKUP. Web Design. Be able to effectively create and use: <ul style="list-style-type: none"> • Mood boards • Visualisation diagrams 	Be able to understand the difference between internet and worldwide web Be able to understand the following: <ul style="list-style-type: none"> • Web 2.0 • Web browser • Website • Web server • HTTP • HTTPS 	<ul style="list-style-type: none"> • Legal • moral • environmental Be able to describe consequences given a specific scenario Be able to justify why an action is ethically / morally acceptable or not Know what “Big data” is and explain how it is used Know the purpose of these laws: <ul style="list-style-type: none"> • Data Protection Act (1998) 	

	<ul style="list-style-type: none"> • Mind maps <p>What is a house style? Identify web page components Be able to justify / criticise the layout of web pages</p>	<p>Be able to differentiate between the following:</p> <ul style="list-style-type: none"> • Components of the world wide web • Parts of webs address • Structure of web address <p>Be able to identify different types of top-level domains. Understand the new type of web/Web 2.0</p>	<ul style="list-style-type: none"> • Computer Misuse Act (1990) <p>Copyright, Design and Patents Act (1998). Mobile App development Be able to understand the process used by web designers to develop an app. What is an Event driven programming? Exploring app lab Be able to do the following:</p> <ul style="list-style-type: none"> • Adding and moving the blue dot • Adding score and displaying final score • Adding a play again button
<p>Understanding / Sequence of delivery</p>	<p>What is the purpose of a spreadsheets? Why do we use spreadsheets? What makes using spreadsheets most suitable? Skills:</p> <ul style="list-style-type: none"> • visualizing data • analysing data using different tools • using operators such as addition/subtraction/multiple/and division to calculate <p>What is a web page? What is a web site? Compare well known web pages:</p> <ul style="list-style-type: none"> • why do they look the way they do? • investigate colour schemes • similarity / consistency between pages on the same site. Why is this? 	<p>Is the internet and world wide web same? What is the main method for connecting networks across the world? How can networks become damaged? Be able to understand the following:</p> <ul style="list-style-type: none"> • VoIP • Instance messaging • Email <p>What is Internet of things? Has internet improved quality of life? How did the world wide web begin? What is the role of search engine?</p> <p>Compare the top-level domains:</p> <ul style="list-style-type: none"> • Which one's are the used by businesses? • Which one's does government use? • Can top level domains identify the country of origin? 	<p>Environmental consequences of using computers:</p> <ul style="list-style-type: none"> • e-waste • pollution • rare metals • mining • power consumption (e.g., Meta, Bitcoin) <p>Moral consequences of using computers</p> <ul style="list-style-type: none"> • replacing humans • artificial intelligence • autonomous cars / weapons <p>Privacy</p> <ul style="list-style-type: none"> • how data is being used • who collects and uses data? • what is Big data? • advantages and disadvantages <p>Legal issues</p> <ul style="list-style-type: none"> • purpose of each of the laws • when do they apply? • what exceptions are there? <p>Mobile App</p> <ul style="list-style-type: none"> • What does mean by app? • How is an app developed? • What might decomposition mean when programming an app for a mobile device? • What is an event driven programming? • How to add and display the final score? • Peer review

Assessments	Assessment on the above content	Assessment on the above content	Assessment on the above content
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