digit strategy

YEAR 8 OBJECTIVES

(Includes System Down lesson)

			Year 8 Units					
			1	2	3	4	5	5b
Finding Information	1.1 Using data & information sources	• use information from primary or secondary sources and know when to choose the different types						
		• recognise how the content and style of information can influence the message it gives and that data can be distorted and misused						
		• justify the use of particular information sources to support an investigation or presentation, and devise and apply criteria to evaluate how well various information types support a task						
	1.2 Searching & selecting	• select information from a range of sources and assess the potential value of the information for a task						
		• frame searches in an appropriate and considered way in relation to the required results, for a more complex problem						
		• use basic logical operators and apply these when searching for information						
		• understand that the different ways in which search engines work can affect which information is returned						
		• acknowledge all sources, recognising copyright and other constraints						
	1.3 Organising & investigating	• save files in appropriate formats and create a hierarchical folder structure						
		• identify the essential data and ICT tools required to solve a problem						
		• develop open and closed questions with sensitivity, recognising people's cultural, social and ethical differences						
		• design a questionnaire or data-collection sheet to collect relevant data, and obtain and use feedback to establish what are good questions						
		• produce or adapt a data structure, enter data into this and check that data is reasonable and accurate						
		• use more complex queries – AND, OR, NOT; use different searches to produce the most effective result or to collect extra or different data for more detailed conclusions						
		• represent information in graphs, charts or tables, and in a report where appropriate; justify the form of representation and check the plausibility of their conclusions						
		• identify examples of automated data collection and recognise the impact of electronic databases on learning, everyday life and employment						
		• evaluate different applications in terms of the structure and method of processing data						
Developing Ideas	2.1 Analysing & automating processes	• identify the key elements of a problem and represent components in a plan						
		• automate simple processes by harnessing software tools; recognize where automation tools, such as filtering, can be use to improve safety when using the internet						
	2.2 Models & modelling	• combine variables within a model in different ways to form rules						
		• recognise that the rules contained within a model determine its output, and make more complex predictions based on several variables						
		• amend existing simple models by changing variables and formulae						
		• identify whether a model has an appropriate set of variables to make it suitable for a particular purpose, and assess its accuracy by comparing its outcomes with those from other sources						
	2.3 Sequencing instructions	• use precision and accurate syntax when framing instructions						
		• test and refine sequences in order to achieve specific outcomes						
		• recognise that sequencing instructions is fundamental to a wide range of ICT applications						
Communicating Information	3.1 Fitness for purpose	• plan communication projects and select the appropriate communication (type, length, media) for the intended audience (considering audience needs and expectations), purpose and environment						
		• reflect on the work of others to help plan and amend their communications and understand how effective presentations or publications address specific audience needs and expectations						
	3.2 Refining & presenting information	• draft, refine and structure their work using a combination of ICT tools to convey meaning more effectively						
		• modify and develop text, images, tables and sounds from several sources within the structure of a piece of work						
		• extract, combine and modify relevant information for a specific purpose, and structure and sequence this to meet audience needs						
		• use a range of ICT tools efficiently to refine the presentation of information for a specific purpose						
	3.3 Communicating	• select appropriate methods of exchanging digital information and recognize that the format affects the method of exchange						
		• use digital communications for the sharing and collaborative						
		• work in a safe and responsible way when communicating with others						
Evaluating	4.1Evaluating work	• improve the quality of outcomes for specific audiences and purposes by using a range of ICT tools						
		• make and use simple success criteria that ensure fitness for purpose						
		• justify the process they use in relation to the task						
		• gather and use feedback to inform future work						
		• reflect on their previous work and learning in order to improve their work						

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