



Subject: Computing
Faculty: Innovation
Year Group: 8

EXCELLING (-, =, +)

	<p>All of the secure criteria plus:</p> <ul style="list-style-type: none"> Acting as a digital leader in the classroom supporting their peers. Applying knowledge and skills consistently. 	<p>All of the secure criteria plus:</p> <ul style="list-style-type: none"> Use of code efficiency to improve runtime execution. Application of CSS to improve style and appearance. 	<p>All of the secure criterion plus:</p> <ul style="list-style-type: none"> Produce an interactive multiple choice quiz with a scoring system. Creation of linked sheets. Ease of use design and functionality.
--	---	--	---

SECURE

	<p align="center">Autumn Term</p>	<p align="center">Spring Term</p>	<p align="center">Summer Term</p>
	<p align="center">Assessment strategy: <u>Formative and Summative in class tests</u> 8.1 Cyber Security</p>	<p align="center">Assessment strategy: <u>Formative and Summative in class tests</u> 8.2 Web Design (HTML)</p>	<p align="center">Assessment strategy: <u>Formative and Summative in class tests</u> 8.3 Spreadsheets (Google Sheets)</p>
<p>Pillar 1 - Declarative Knowledge</p> <p>This is sometimes referred to as conceptual knowledge.</p> <ul style="list-style-type: none"> - It consists of the facts, rules and principles of the domain as well as the relationships between them. - It can be understood as 'knowing that'. 	<ul style="list-style-type: none"> Explain the need for IT laws such as data protection act and computer misuse act. Critique online services in relation to data privacy. Different forms of malicious software for example worms, trojans etc. Recognise how human errors pose security risks to data. Explain how DDoS attacks can impact users of online services. 	<p>Everything from term 1 plus:</p> <ul style="list-style-type: none"> Know where to add website content for example between <head> or <body> tags. Add comments using <!--comment--> in code to show understanding. Usability heuristics for user interface design for example consistency and standards. Opening and closing tags. Error detection and what the different error messages mean. 	<p>Everything from terms 1 and 2 plus:</p> <ul style="list-style-type: none"> Difference between rows and columns to identify cell reference. Automatic calculations that update when the data does. When to lock a cell using absolute cell reference. When it is appropriate to use different graphs. Know about the rules and structure of formulae such as '=IF' and '=vLOOKUP'.
<p>Pillar 2 - Procedural Knowledge</p> <p>This is knowledge of methods and processes that can be performed.</p> <ul style="list-style-type: none"> - It can be understood as 'knowing how'. - Teaching the steps of these processes as knowledge helps pupils perform them more skilfully 	<ul style="list-style-type: none"> Identify spam email and what to do with it. How to spot signs of a phishing email. Strategies to minimise the risk of data being compromised through human error. Strategies to reduce the chance of a brute force attack being successful. Examine how different types of malware cause problems for computer systems. How malicious bots can have an impact on societal issues. 	<p>Everything from term 1 plus:</p> <ul style="list-style-type: none"> Importing images to the website including correct dimensions. Create a navigation menu with hyperlinks going to internal and external webpages. How to insert tables to organise information. Improve presentation of web pages for example colour, font and text alignment. Creation of a web form for user queries. 	<p>Everything from terms 1 and 2 plus:</p> <ul style="list-style-type: none"> Improve presentation of data for example embolden text, adapting height and width of cells. Control the types of numbers you enter - for example you can choose percentage, currency or set the number of decimal places. Use formulae to add, subtract, multiple and divide numbers. Apply conditional formatting to change the colour of a cell following a specified criteria. Data Create data validation to restrict entry to a cell i.e. drop down list. Effective production of graphs.

DEVELOPING (-, =, +)

	Not yet secure with all of the criteria set out for the term.
--	---