

Computing @ SJB

EMERGING	SECURE	DEEPENING	MASTERY
<ul style="list-style-type: none"> • I can name several input and output devices and I know the difference between hardware and software, and the role of the CPU • I can name several types of storage, and I know the difference between RAM and ROM • I know some of the roles of the operating systems in a computer 	<ul style="list-style-type: none"> • I know the difference between input and output devices on a computer • I know the difference between storage and memory in a computer • I know how to use AND, OR, NOT in logic gates 	<ul style="list-style-type: none"> • I can suggest the appropriate input and output devices required in a given situation • I know how the processor, main memory, and storage interact to execute programs • I am able to interpret truth tables 	<ul style="list-style-type: none"> • I know a computer can receive input, process it, and produce output • I know that the purpose of a computer is to execute programs that operate on data • I am able to build and interpret logic circuits
<p>WWW :</p>			
<p>EBI :</p>			

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EMERGING	SECURE	DEEPENING	MASTERY
<ul style="list-style-type: none"> • I can define what a computer network is and a protocol • I know the difference between wired and wireless technologies • I can define what the internet is • I can list the hardware necessary for connecting devices to networks • I can compare wired and wireless connections • I know the difference between the WWW and the Internet • Define what the internet is • Know the difference between the Internet and the WWW 	<ul style="list-style-type: none"> • I can explain the role of a network cable, hub, server and router • I can explain how data is transmitted between computers across networks • I can define ‘protocol’ and why it is required • I can define what bandwidth is • Describe key words ‘protocols’, ‘packets’, and ‘addressing’ • Explain the difference between a web browser and a search engine 	<ul style="list-style-type: none"> • I can name some protocols and know where they are used • I can understand the term “bandwidth” and know how it is measured • I understand how a web browser works • Explain how data travels between computers across the internet • Describe components (servers, browsers, pages, HTTP and HTTPS protocols) and how they work together 	<ul style="list-style-type: none"> • I know the advantages and disadvantages of using computer networks • I can describe components (servers, browsers, pages, HTTP and HTTPS protocols, etc.) and how they work together • I can define ‘bandwidth’, using the appropriate units for measuring the rate at which data is transmitted, and discuss familiar examples where bandwidth is important • I can explain how the Internet can collect and share information about me with or without my knowledge • Know how and where the protocols TCP and IP are used • Explain the difference between the Internet, its services, and the World Wide Web

WWW :

EBI :

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EMERGING	SECURE	DEEPENING	MASTERY
<ul style="list-style-type: none"> • I understand what artificial intelligence means • I know there are a range of ways to use artificial intelligence • I know the basic goals of artificial intelligence and how to carry out research 	<ul style="list-style-type: none"> • I can carry out research on artificial intelligence and form an opinion on its effectiveness • I know there are a range of ways to use artificial intelligence ethically, respectfully and responsibly 	<ul style="list-style-type: none"> • I can argue the case for and against the use of artificial intelligence • I can compare different types of artificial intelligence and consider their impact ethically 	<ul style="list-style-type: none"> • Given a scenario I can justify my opinion on the ethical issues regarding artificial intelligence • I can evaluate and explain how the use of artificial intelligence can impact on society.
WWW :			
EBI :			

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EMERGING	SECURE	DEEPENING	MASTERY
<ul style="list-style-type: none"> Choose suitable search terms to find relevant content on the web Explain the needs of the intended audience Recognise that existing digital artefacts can be modified Describe how media can be copied between applications Be able to explain what HTML is used for 	<ul style="list-style-type: none"> Identify features that help visually communicate the message Plan a digital artefact to include features identified as good Use digital tools to provide feedback on a document Use HTML to define the appearance of text on a web page Use HTML to display an image on a web page Apply HTML tags to structure a web page 	<ul style="list-style-type: none"> Describe how design choices address the task Use a combination of applications to create a digital artefact Recognise that content should be modified to suit different digital artefacts Use a combination of applications to create a digital artefact Plan a multi-page digital artefact with consistent styling Know that web sites are made up of multiple web pages Create hyperlinks to allow users to navigate between web pages Use CSS to style pages 	<ul style="list-style-type: none"> Explain the need for the consistent styling within a multi-page digital artefact Modify content to suit the purpose of a different digital artefact Create a multi-page digital artefact applying consistent styling Be able to explain what CSS is and how to use it to style a set of web pages consistently
WWW :			
EBI :			

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<ul style="list-style-type: none"> • I can create a variable and assign a value • I can create a variable of a specified data type • I can use + / - * in assigning variables • I can use > < >= <= == != in comparing variables and values 	<ul style="list-style-type: none"> • I can create and change a variable and trace it in a simple program • I can create the appropriate data types for a scenario • I can do calculations using MOD, DIV and exponent • I can use the operators to arrive at a given Boolean value 	<ul style="list-style-type: none"> • I can create variables with the correct data type • I can alter the data type for a variable when necessary • I know how to assign variables using MOD, DIV and exponent • I can predict whether the Boolean value will be True or False 	<ul style="list-style-type: none"> • I can identify which variables are needed to solve a problem • I can name and use variables appropriately with all data types • I know how to use MOD, DIV and exponent in a given scenario • I can predict whether the Boolean value will be True or False in complex problems
WWW :			
EBI :			

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EMERGING	SECURE	DEEPENING	MASTERY
<ul style="list-style-type: none"> • I can write step by step instructions to solve a simple problem • I can create questions which give True or False answers • I understand questions can have more than two True or False answers 	<ul style="list-style-type: none"> • I can create a python program to solve a simple problem • I can write an IF statement in Python which checks a condition • I can write an IF...ELIF...ELSE statement in Python which checks conditions 	<ul style="list-style-type: none"> • Given variables and values I can write a Python sequence to achieve a goal • Given variables and values, I can write an IF statement to check a condition • Given variables and values, I can write multi branch selections to check 	<ul style="list-style-type: none"> • I can build a program using sequences in Python implement an algorithm • I can interpret a given scenario and build a selection program in Python using IF..ELSE • I can interpret a given scenario and build a multi branch selection program
WWW :			
EBI :			