

Year 9 Computer Science	Emerging	Developing	Secure	Mastery
Sequence, selection and iteration coding	<p>Identify different data types.</p> <p>Describe the term syntax error.</p> <p>Describe the term logic error.</p> <p>Describe the terms variable and constant.</p> <p>Describe the term decomposition.</p> <p>Describe the term abstraction.</p> <p>Identify different arithmetic and comparison operators.</p> <p>Identify the 3 programming constructs - sequence, selection and iteration.</p> <p>Read and interpret code with 2 selection statements.</p>	<p>Identify and describe an integer as a data type.</p> <p>Describe the difference between syntax and logic errors.</p> <p>Describe the difference between variables and constants.</p> <p>Describe why we use decomposition.</p> <p>Describe why we use abstraction.</p> <p>Select the correct Boolean and comparison operator for a given problem.</p> <p>Describe the 3 programming constructs - sequence, selection and iteration.</p> <p>Describe the difference between the 2 types of iteration - count and condition loop.</p> <p>Create code with inputs and outputs.</p>	<p>Describe the use of different data types.</p> <p>Identify syntax and logic errors in code.</p> <p>Identify variables and constants in code.</p> <p>Apply decomposition to a given scenario.</p> <p>Apply abstraction to a given scenario.</p> <p>Create code using different arithmetic and comparison operators.</p> <p>Identify programming constructs used in a given code.</p> <p>Read and interpret code with multiple selection statements.</p> <p>Create code with 2 selection statements.</p> <p>Select the correct type of iteration for a given problem.</p> <p>Read and interpret code with count and condition loops.</p>	<p>Identify and describe the use of different data types from a given scenario.</p> <p>Refine and improve code by fixing syntax and logic errors.</p> <p>Create code with multiple selection statements.</p> <p>Create code using a count loop.</p> <p>Create code using a condition loop.</p> <p>Create code using lists.</p>

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Data Representation	<p>Identify the 2 values understood by a computer.</p> <p>Identify different types of data to be stored by a computer.</p>	<p>Identify binary, denary and hex as 2 different base systems.</p> <p>Describe that different data values are converted to binary.</p>	<p>Describe how characters are stored by a computer.</p> <p>Describe how images are stored by a computer.</p> <p>Describe how sound is stored by a computer.</p> <p>Convert between binary and denary base systems.</p> <p>Perform binary addition.</p>	<p>Identify and compare different character sets.</p> <p>Describe the impact of colour depth on the quality and file size of an image.</p> <p>Describe the impact of sample rate on the quality and file size of audio.</p> <p>Convert between binary, denary and hex base systems.</p>
Networks	<p>Understand what we mean by the term network.</p> <p>Identify examples of a LAN and WAN.</p> <p>Describe the concept of a wired and wireless network.</p> <p>Identify an ethical and cultural issue in computing.</p> <p>Identify an environmental issue in computing.</p> <p>Identify a computing law.</p>	<p>Describe the terms LAN and WAN.</p> <p>Identify types of wired and wireless networks.</p> <p>Describe the term cloud storage.</p> <p>Describe the term cloud computing.</p> <p>Describe an ethical and ethical issue in computing.</p> <p>Describe an environmental issue in computing.</p>	<p>Describe advantages and disadvantages of creating a network.</p> <p>Describe the difference between a LAN and a WAN.</p> <p>Describe advantages and disadvantages of wired and wireless networks.</p> <p>Describe advantages and disadvantages of cloud storage.</p> <p>Describe different ethical and cultural issues in computing.</p>	<p>Identify methods of communicating on a LAN and WAN.</p> <p>Describe advantages and disadvantages of cloud storage and link to a scenario.</p> <p>Describe different ethical and cultural issues in computing for a given scenario.</p> <p>Describe different environmental issues in computing for a given scenario.</p>

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