



## Year 8 Progress Grid – Spring Term

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Topic	Grades 3/2/1 - (D/E/F)	Grades 6/5/4 - (B/C)	Grades 9/8/7 - (A*/A)
<b>Terminology</b>	I need support to use the correct terminology	I sometimes use the correct terminology	I always use the correct terminology
<b>Sound</b>	<ul style="list-style-type: none"> <li>• I can record sound in sound recording software (Soundation)</li> <li>• I can identify different sound file types</li> <li>• I can export a sound file and comment on the size of the file created</li> <li>• I am aware of data compression and the advantages</li> </ul>	<ul style="list-style-type: none"> <li>• I can record sound in sound recording software (Soundation)</li> <li>• I can identify different sound file types</li> <li>• I can export a sound file and comment on the size of the file created</li> <li>• I can explain data compression and the advantages</li> <li>• I can import sound files and insert metadata (audacity)</li> </ul>	<ul style="list-style-type: none"> <li>• I can record sound in sound recording software (Soundation)</li> <li>• I can identify different sound file types</li> <li>• I can export a sound file and comment on the size of the file created</li> <li>• I can explain data compression</li> <li>• I can discuss the advantages and disadvantages of file compression</li> <li>• I can import sound files and insert metadata (audacity)</li> </ul>
<b>Databases</b>	<ul style="list-style-type: none"> <li>• I can recognise most of the main features of a database:               <ul style="list-style-type: none"> <li>○ Tables</li> <li>○ Fields</li> <li>○ Records</li> <li>○ Queries</li> </ul> </li> <li>• I can recognise most data types</li> <li>• I can populate a database with records</li> <li>• I can create a query with a single criteria</li> </ul>	<ul style="list-style-type: none"> <li>• I can recognise most of the main features of a database:               <ul style="list-style-type: none"> <li>○ Tables</li> <li>○ Fields</li> <li>○ Records</li> <li>○ Queries</li> <li>○ Reports</li> <li>○ Data Entry Forms</li> </ul> </li> <li>• I can recognise all data types</li> <li>• I can accurately populate a database with records</li> </ul>	<ul style="list-style-type: none"> <li>• I can create a database structure including:               <ul style="list-style-type: none"> <li>○ Multiple tables</li> <li>○ Fields</li> <li>○ Records</li> <li>○ Queries</li> <li>○ Reports</li> <li>○ Data Entry Forms</li> <li>○ Validation</li> <li>○ Relationships</li> <li>○ Primary Keys</li> </ul> </li> </ul>



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	<ul style="list-style-type: none"> <li>I can recognise the difference between a search and a sort in a database</li> </ul>	<ul style="list-style-type: none"> <li>I can explain the terms validation and verification</li> <li>I can create a query with multiple criteria</li> <li>I can create a query using mathematical operators</li> <li>I can create a query using Boolean logic</li> <li>I can explain the differences between one to many and one to one relationships</li> <li>I can recognise the difference between a search and a sort in a database</li> </ul>	<ul style="list-style-type: none"> <li>I can apply validation rules and verify input data</li> <li>I can create a query with multiple criteria</li> <li>I can create a query using mathematical operators</li> <li>I can create a query using Boolean logic</li> <li>I can explain the differences between one to many and one to one relationships</li> <li>I can recognise the difference between a search and a sort in a database</li> </ul>
<b>Legislation (Databases)</b>	<ul style="list-style-type: none"> <li>I can identify relevant legislation that applies to storing data in a database</li> </ul>	<ul style="list-style-type: none"> <li>I can identify relevant legislation that applies to storing data in a database</li> <li>I can explain the advantages and disadvantages of this legislation in terms of data storage</li> </ul>	<ul style="list-style-type: none"> <li>I can identify relevant legislation that applies to storing data in a database</li> <li>I can thoroughly explain the advantages and disadvantages of this legislation in terms of data storage</li> <li>I</li> </ul>
<b>Number Systems</b>	<ul style="list-style-type: none"> <li>I can convert 4 bit binary numbers into denary</li> <li>I can identify hexadecimal numbers within HTML code</li> </ul>	<ul style="list-style-type: none"> <li>I can convert 8 bit binary numbers into denary</li> <li>I can explain the relevance of hexadecimal number systems</li> </ul>	<ul style="list-style-type: none"> <li>I can convert 8 bit binary numbers into denary</li> <li>I can explain the relevance of the hexadecimal number system</li> <li>I can convert between binary, denary and hexadecimal numbers</li> </ul>





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<b>Computational Thinking</b>	<ul style="list-style-type: none"> <li>I can explain the term 'algorithm' and give some examples</li> <li>I can explain the term decomposition</li> <li>I can recognise most flow chart symbols</li> <li>I can create pseudocode for the creation of Happy Birthday</li> </ul>	<ul style="list-style-type: none"> <li>I can explain the term 'algorithm' and give a range of examples</li> <li>I can explain the term decomposition</li> <li>I can recognise all flow chart symbols</li> <li>I can create pseudocode for the creation of Frere Jacques</li> </ul>	<ul style="list-style-type: none"> <li>I can explain the term 'algorithm' and give a wide range of examples</li> <li>I can explain the term decomposition</li> <li>I can recognise all flow chart symbols</li> <li>I can create pseudocode for the creation of John Denver Country Road</li> </ul>
<b>Visual Programming</b>	<ul style="list-style-type: none"> <li>I am familiar with a range of features within the Scratch interface</li> <li>I can understand and explain the concept of a variable</li> <li>I can explain the concept of selection using IF and ELSE</li> <li>I can create an interactive quiz using an example</li> </ul>	<ul style="list-style-type: none"> <li>I am familiar with a range of features within the Scratch interface</li> <li>I can understand and explain the concept of a variable</li> <li>I can explain the concept of selection using IF, ELSE, ELIF</li> <li>I can create an interactive quiz containing at least 5 questions</li> </ul>	<ul style="list-style-type: none"> <li>I am familiar with a range of features within the Scratch interface</li> <li>I can understand and explain the concept of a variable</li> <li>I can explain the concept of selection using IF, ELSE, ELIF</li> <li>I can create an interactive quiz containing at least 10 questions</li> </ul>
<b>Data Capture</b>	<ul style="list-style-type: none"> <li>I can identify some different methods of collecting data</li> <li>I am aware of the different features of a data capture form</li> <li>Using an example, I can create a questionnaire to seek feedback on my interactive quiz</li> </ul>	<ul style="list-style-type: none"> <li>I can identify a range of different methods of collecting data and the advantages and disadvantages of each</li> <li>I am aware of the different features of a data capture form and able to apply them to different scenarios</li> <li>I can create a suitable questionnaire to seek</li> </ul>	<ul style="list-style-type: none"> <li>I can identify a wide range of different methods of collecting data and the advantages and disadvantages of each</li> <li>I am aware of the different features of a data capture form and am able to apply them effectively to different scenarios</li> <li>I can discuss, explain and justify legislation linked to collecting</li> </ul>





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	<ul style="list-style-type: none"><li>I can discuss legislation linked to collecting information</li></ul>	<p>feedback on my interactive quiz</p> <ul style="list-style-type: none"><li>I can discuss and explain legislation linked to collecting information giving examples</li></ul>	<p>information giving appropriate examples</p>
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<p><b>Computational Thinking</b></p>	<ul style="list-style-type: none"> <li>• I can explain the difference between sorting and searching</li> <li>• I can sort into ascending and descending order</li> <li>• I can compare two sorting algorithms and discuss the advantages and disadvantages</li> <li>• I can compare two searching algorithms (linear and binary)</li> </ul>	<ul style="list-style-type: none"> <li>• I can explain the difference between sorting and searching</li> <li>• I can sort into ascending and descending order</li> <li>• I can compare a range of sorting algorithms and discuss the advantages and disadvantages of each</li> <li>• I can compare two searching algorithms (linear and binary) and discuss the advantages and disadvantages of each</li> </ul>	<ul style="list-style-type: none"> <li>• I can explain the difference between sorting and searching</li> <li>• I can sort into ascending and descending order</li> <li>• I can compare a wide range of sorting algorithms and discuss the advantages and disadvantages of each</li> <li>• I can apply the most appropriate sorting algorithm in a given scenario</li> <li>• I can compare two searching algorithms (linear and binary) and discuss the advantages and disadvantages of each.</li> <li>• I can apply the most appropriate searching algorithm in a given scenario</li> </ul>
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