Name: **Class:**

Topic	Grades 3/2/1 - (D/E/F)	Grades 6/5/4 - (B/C)	Grades 9/8/ 7 - (A*/A)
Terminology	I need support to use the correct terminology	I sometimes use the correct terminology	I always use the correct terminology
Sound	- I can record sound in sound recording software (Soundation) - I can identify different sound file types - I can export a sound file and comment on the size of the file created - I am aware of data compression and the advantages	- I can record sound in sound recording software (Soundation) - I can identify different sound file types - I can export a sound file and comment on the size of the file created - I can explain data compression and the advantages - I can import sound files and insert metadata (audacity)	- I can record sound in sound recording software (Soundation) - I can identify different sound file types - I can export a sound file and comment on the size of the file created - I can explain data compression - I can discuss the advantages and disadvantages of file compression - I can import sound files and insert metadata (audacity)
Databases	- I can recognise most of the main features of a database: - Tables - Fields - Records - Queries - I can recognise most data types - I can populate a database with records - I can create a query with a single criteria	- I can recognise most of the main features of a database: - Tables - Fields - Records - Queries - Reports - Data Entry Forms - I can recognise all data types - I can accurately populate a database with records	- I can create a database structure including: - Multiple tables - Fields - Records - Queries - Reports - Data Entry Forms - Validation - Relationships - Primary Keys

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	• I can recognise the difference between a search and a sort in a database	• I can explain the terms validation and verification • I can create a query with multiple criteria • I can create a query using mathematical operators • I can create a query using Boolean logic • I can explain the differences between one to many and one to one relationships • I can recognise the difference between a search and a sort in a database	• I can apply validation rules and verify input data • I can create a query with multiple criteria • I can create a query using mathematical operators • I can create a query using • Boolean logic • I can explain the differences between one to many and one to one relationships • I can recognise the difference between a search and a sort in a database
Legislation (Databases)	• I can identify relevant legislation that applies to storing data in a database	• I can identify relevant legislation that applies to storing data in a database • I can explain the advantages and disadvantages of this legislation in terms of data storage	• I can identify relevant legislation that applies to storing data in a database • I can thoroughly explain the advantages and disadvantages of this legislation in terms of data storage • I
Number Systems	• I can convert 4 bit binary numbers into denary • I can identify hexadecimal numbers within HTML code	• I can convert 8 bit binary numbers into denary • I can explain the relevance of hexadecimal number systems	• I can convert 8 bit binary numbers into denary • I can explain the relevance of the hexadecimal number system • I can convert between binary, denary and hexadecimal numbers

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Computational Thinking	• I can explain the term 'algorithm' and give some examples • I can explain the term decomposition • I can recognise most flow chart symbols • I can create pseudocode for the creation of Happy Birthday	• I can explain the term 'algorithm' and give a range of examples • I can explain the term decomposition • I can recognise all flow chart symbols • I can create pseudocode for the creation of Frere Jacques	• I can explain the term 'algorithm' and give a wide range of examples • I can explain the term decomposition • I can recognise all flow chart symbols • I can create pseudocode for the creation of John Denver Country Road
Visual Programming	• I am familiar with a range of features within the Scratch interface • I can understand and explain the concept of a variable • I can explain the concept of selection using IF and ELSE • I can create an interactive quiz using an example	• I am familiar with a range of features within the Scratch interface • I can understand and explain the concept of a variable • I can explain the concept of selection using IF, ELSE, ELIF • I can create an interactive quiz containing at least 5 questions	• I am familiar with a range of features within the Scratch interface • I can understand and explain the concept of a variable • I can explain the concept of selection using IF, ELSE, ELIF • I can create an interactive quiz containing at least 10 questions
Data Capture	• I can identify some different methods of collecting data • I am aware of the different features of a data capture form • Using an example, I can create a questionnaire to seek feedback on my interactive quiz	• I can identify a range of different methods of collecting data and the advantages and disadvantages of each • I am aware of the different features of a data capture form and able to apply them to different scenarios • I can create a suitable questionnaire to seek	• I can identify a wide range of different methods of collecting data and the advantages and disadvantages of each • I am aware of the different features of a data capture form and am able to apply them effectively to different scenarios • I can discuss, explain and justify legislation linked to collecting

	• I can discuss legislation linked to collecting information	feedback on my interactive quiz • I can discuss and explain legislation linked to collecting information giving examples	information giving appropriate examples

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Computational Thinking	- I can explain the difference between sorting and searching - I can sort into ascending and descending order - I can compare two sorting algorithms and discuss the advantages and disadvantages - I can compare two searching algorithms (linear and binary)	- I can explain the difference between sorting and searching - I can sort into ascending and descending order - I can compare a range of sorting algorithms and discuss the advantages and disadvantages of each - I can compare two searching algorithms (linear and binary) and discuss the advantages and disadvantages of each	- I can explain the difference between sorting and searching - I can sort into ascending and descending order - I can compare a wide range of sorting algorithms and discuss the advantages and disadvantages of each - I can apply the most appropriate sorting algorithm in a given scenario - I can compare two searching algorithms (linear and binary) and discuss the advantages and disadvantages of each. - I can apply the most appropriate searching algorithm in a given scenario