

<b>Topic: 9.5 Databases</b>		<b>Duration: 6 weeks</b>		<b>Composite: Project</b>		
<b>Key vocabulary:</b>	<b>Core knowledge questions</b>	<b>Powerful knowledge crucial to commit to long term memory</b>		<b>Links to previous and future topics</b>		
Data Database Table Entity Field Record Primary Key Queries Reports Relationship Validation	<ol style="list-style-type: none"> <li>1. What is a database? A database is organised collection of structured data</li> <li>2. Why are databases used? Databases are use so that data can be managed more efficiently and effectively by searching, sorting and querying it.</li> <li>3. What types of database are there? Paper based and computer based</li> <li>4. What are paper based databases? Databases which are usually printed out such as catalogues and calendars</li> <li>5. What are computer based databases? Databases which are usually stored on computer that can sorted, searched and queried such as search engines, social networks, media libraries and customer transaction records.</li> <li>6. What are fields? Fields are different elements of a database record in which one piece of information is stored. For example 'name' in an electronic address book.</li> <li>7. What is a record? A record is all of the data relating to one entity in a database.</li> <li>8. What is a primary key used for? A primary key is used as a unique identifier for records in a database.</li> <li>9. What are queries? Queries are a method used for requesting information from a database which matches set criteria.</li> <li>10. What is validation? Validation is a check to ensure that the data entered is sensible and reasonable.</li> <li>11. What are reports? Reports contain exported data presented in a clear and readable format.</li> </ol>	<ul style="list-style-type: none"> <li>• Databases are organised collections of data</li> <li>• They are used to make managing data more effective and efficient.</li> <li>• Databases uses fields to distinguish unique bits of data and records to store data for each entity.</li> <li>• Queries are used to refine data using specific criteria.</li> </ul>		<ul style="list-style-type: none"> <li>• Links to 9.1 Spreadsheet unit.</li> <li>• Links to GCSE Computer Science</li> </ul>		
<b>We will develop these skills:</b>						
<b>Impressive reading</b>	<b>Impressive speaking</b>	<b>Impressive writing</b>	<b>Resilience</b>	<b>Numeracy via:</b>	<b>Digital Literacy via:</b>	<b>Employability via:</b>
Article on Netflix Media database.	Explain how databases are used in the world around us.	Develop reports to effectively present data.	The handling of huge sets of data and the need to continue to refine the data set through queries to create an efficient search.	Data types – Number, Currency, Date/Time	Understanding how data is organised and structured.	Learning how to structure and organise data to make it efficient and effective.