Year 8	Unit 1 Databases	8 Lessons

Aims: This unit of work is designed to introduce students to understanding the uses of databases and how to create a simple single flat file database and use the features of the software to input and display the data efficiently.

Links to KS4:

Collection of data (ICT and Media/ Product feedback)

Testing (BTEC ICT graphic and spreadsheet

Planning (BTEC ICT graphics and spreadsheet)

Key Skills	Literacy Links:	Numeracy Links:
- To learn how people collect data for a variety of purposes and the day information they hold on us - To develop & demonstrate skills in producing a functional database that can input and output data efficiently - To develop an understanding of how a database is used in society - To evaluate the database and correct any errors that are found	**Key Words:** **Field, Record, Table, Query, Primary Key, Unique identifier, validation, Verification** Be able to read and understand information and instructions, then use this understanding to create a suitable product	Opportunity to use numerical data for the purpose of sorting and searching for information. Create different validation checks based on a numerical amount

Assessment	Cross-Curricular Links
Students will be assessed on their understanding of database software through a written examination and practical task. Knowledge - Students will be assessed throughout the unit on their ability to understand a functional database from scratch and the different elements starting with collecting their own data and then storing it. (Formative) Research: - Students will research the different uses of databases in society. Planning: - Students will plan a data dictionary for their database table. Skills - Students should be able to create and manipulate a database using a range of different features in Microsoft Access (Summative) Evaluation - Students will be asked to spot mistakes and suggest improvements that can be made to a database.	- Business – Designing a questionnaire - Media – Collecting information (primary research)
	SMSC opportunities and British values
	- Encourages students to accept responsibility for their behaviour & show initiative. - Law and the correct storage of personal information

Opportunities for further learning

Homework will be given out twice during the unit to widen students understanding of databases and to consolidate knowledge gained.

- Database homework one consists of researching different organisations that use a database and explain their uses and why they are better than other software
- Database homework two consists of testing students understanding of queries and knowledge and understanding of the main parts of a database