

<b>Topic: 9.4 Sound Editing</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>	
Audio File Format Record Import Fade Pitch Filter Export Compression Bit Rate Client Brief Target Audience Client	<ul style="list-style-type: none"> <li>• What sectors are audio products used in? Sound is used in lots of different sectors including: commercial, entertainment, business and education.</li> <li>• What are the main audio file formats? .mp3, .wav, .wma</li> <li>• What environmental considerations need to be considered when recording audio? Environmental considerations include distance from audio source, directionality, background noise such as people talking, road noise, wind etc.</li> <li>• What specialist hardware is needed for editing sound? Microphone for recording sound, Headphones for listening to audio.</li> <li>• What software is used to edit sound? An example of software that can be used to edit sound is Audacity</li> <li>• What features of sound editing software can be used to edit sound? Trim audio, add fade, adjust gain, apply filters, noise removal, adjust pitch, invert.</li> <li>• What is audio compression? Audio compression is used to reduce the file size of digital audio files.</li> </ul>	<ul style="list-style-type: none"> <li>• Sound is used in lots of different sectors such as commercial, entertainment, business and education.</li> <li>• Sound is made by recording or sampling sound waves and then being converted to a digital format.</li> <li>• The main file formats are .mp3, .wav and .wma</li> <li>• Sound is compressed to reduce file size</li> </ul>	<ul style="list-style-type: none"> <li>• Links to 7.4 Intro to Pre-production</li> <li>• Links to KS\$ Optional Unit.</li> </ul>	

<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	<ul style="list-style-type: none"> <li>• What is a database? A database is organised collection of structured data</li> <li>• 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>• What types of database are there? Paper based and computer based</li> <li>• What are paper based databases? Databases which are usually printed out such as catalogues and calendars</li> <li>• 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>• 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>• What is a record? A record is all of the data relating to one entity in a database.</li> <li>• What is a primary key used for? A primary key is used as a unique identifier for records in a database.</li> <li>• What are queries? Queries are a method used for requesting information from a database which matches set criteria.</li> <li>• What is validation? Validation is a check to ensure that the data entered is sensible and reasonable.</li> <li>• What are reports? Reports contain exported data presented in a clear and readable format.</li> </ul>	<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>	