








## ICT Department – Transition Learning Programme

<p>This half term I am learning:</p> <ul style="list-style-type: none"> <li>• How different digital devices work and their features.</li> <li>• What a relational database is</li> <li>• How data is stored in a database</li> <li>• What the different relationships are in a relational database</li> <li>• How to normalise data to 3<sup>rd</sup> normal form</li> </ul>		<p>Key Terms I will learn this half term:</p> <ul style="list-style-type: none"> <li>• <i>Relational</i></li> <li>• <i>Normalisation</i></li> <li>• <i>Primary key</i></li> <li>• <i>Foreign key</i></li> <li>• <i>Composite key</i></li> <li>• <i>Database</i></li> <li>• <i>Entity</i></li> <li>• <i>Attribute</i></li> <li>• <i>Tuple</i></li> </ul>
<p>In week 1 classwork I will:</p> <p>Explain what the devices are below, their main features and their uses.</p>		<p>Extension</p> <p>Test yourself quiz</p>
<p>In week 2 classwork I will:</p> <p>Research the features and uses of the following devices:</p> <ul style="list-style-type: none"> <li>• Multifunctional Devices</li> <li>• Digital Cameras</li> <li>• Data Capture &amp; Collection Systems</li> <li>• Communication Devices &amp; Systems</li> </ul>		<p>Extension</p> <p>Test yourself quiz</p>
<p>In week 3 classwork I will :</p> <p>Give examples of how devices are used for social, personal and educational reasons.</p>		<p>Extension</p> <p>Test yourself quiz</p>
<p>In week 4 classwork I will:</p> <p>Define the keys terms of a relational database. Be able to explain what the different relationships are in a database and give examples.</p>		<p>Extension</p> <p>Label the table using the key terms Explain what the relationships are between the given entities.</p>
<p>In week 5 classwork I will:</p> <p>Know the difference between primary, foreign and composite keys. Show an example using data how these keys are used.</p>		<p>Extension</p> <p>Show the relationship between the two tables and explain what the keys are.</p>
<p>In week 6 classwork I will:</p> <p>Normalise data to 3<sup>rd</sup> normal form and understand why we normalise data.</p>		<p>Extension</p> <p>Normalise the given data to third normal form.</p>

### Websites to Support:

**KnowItAll  
Ninja**

<https://www.knowitallninja.com/>

<u>Database Normalisation</u>	<a href="https://www.advanced-ict.info/databases/normal.html">https://www.advanced-ict.info/databases/normal.html</a>
<u>Teach ICT</u>	<a href="https://www.teach-ict.com/as_a2_ict_new/ocr/AS_G061/315_database_concepts/normalisation/miniweb/pg11.htm">https://www.teach-ict.com/as_a2_ict_new/ocr/AS_G061/315_database_concepts/normalisation/miniweb/pg11.htm</a>