





<p><b>This half term: Skills, Knowledge and Understanding to be developed:</b></p> <p>By the end of this half term I will start studying the content of Unit 4. I will continue to work on Unit 5 coursework and begin the testing process.</p>		<p><b>Key Terms / Words:</b> Registers, buses, parallel processing, routing costs, floating point, mantissa, exponent, normalisation, DBMS, hashing algorithm, Big data.</p>	
<p><b>LP 3 – Week 1 Learning Outcomes:</b> <i>Revise and complete Mock Examination.</i></p>	<div style="border: 2px solid red; padding: 5px; width: 40px; margin: 0 auto;">SA</div>	<p><b>Success Criteria:</b></p> <p>1. Complete Mock</p>	<p>Homework LP 3</p>
<p><b>LP 3 – Week 2 Learning Outcomes:</b> <i>GJW - Topic 1 – Hardware and communication</i></p> <ul style="list-style-type: none"> <li>Students will be able to write programs in basic assembly language.</li> <li>Students will continue to work on their coursework programming.</li> </ul>	<div style="border: 1px solid green; padding: 5px; width: 40px; margin: 0 auto;">  </div>	<p><b>Success Criteria:</b></p> <p>1. Students can write a basic assembly language program</p>	<p>Homework LP 3</p>
<p><b>LP 3 – Week 3 Learning Outcomes:</b> <i>GJW - Topic 2 – Data Transmission</i></p> <ul style="list-style-type: none"> <li>Students will be able to describe devices and technology for wireless connection.</li> <li>Students will know how to differentiate network routes.</li> </ul>	<div style="border: 2px solid red; padding: 5px; width: 40px; margin: 0 auto;">APP1</div>	<p><b>Success Criteria:</b></p> <p>1. Students will be able to calculate lowest cost routes and data transfer rates.</p>	<p>Homework LP 3</p>
<p><b>LP 3 – Week 4 Learning Outcomes:</b> <i>GJW - Topic 3 – Data Representation</i></p> <ul style="list-style-type: none"> <li>Students will be able to apply binary arithmetic techniques</li> <li>Students will be able to represent negative numbers using two's complement and sign and magnitude.</li> </ul> <p>Students will be able to convert between real and floating point numbers.</p>	<div style="border: 1px solid green; padding: 5px; width: 40px; margin: 0 auto;">  </div>	<p><b>Success Criteria:</b></p> <p>Students can answer A level exam questions on data representation.</p>	<p>Homework LP 3</p> <p>- <b>Worksheet on floating point arithmetic.</b></p>
<p><b>LP 3 – Week 5 Learning Outcomes:</b></p> <ul style="list-style-type: none"> <li>Students will know what is meant by shifting, overflow, underflow and truncation.</li> </ul>	<div style="border: 1px solid green; padding: 5px; width: 40px; margin: 0 auto;">  </div>	<p><b>Success Criteria</b></p> <p>1. Complete Development Coding</p>	<p>Homework LP 3</p> <p>-</p>
<p><b>LP 3 – Week 6 Learning Outcomes:</b> <i>GJW - Topic 4 – Organisation of data</i></p> <ul style="list-style-type: none"> <li>Students will know how files are organised, updated and processed by programs</li> <li>Students will be able to compare hashing algorithms and how to deal with overflow.</li> </ul>	<div style="border: 1px solid green; padding: 5px; width: 40px; margin: 0 auto;">  </div>	<p><b>Success Criteria:</b></p> <p>1. Students will be able to discuss in detail the process of hashing algorithms. Students will be able to demonstrate their program for the coursework</p>	<p>Homework LP 3</p> <p>- <b>Complete further implementation after coursework feedback</b></p>