
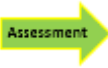





# A2 GEOGRAPHY Year 13 LP1 [Global Systems]

<p><b>This half term: Skills, Knowledge and Understanding to be developed:</b></p> <ul style="list-style-type: none"> <li><b>Skills:</b> Students will be able to calculate percentages; analyse CO2 graphs; research secondary sources for information to support their individual investigation.</li> <li><b>Knowledge:</b> Students will know the concepts of system and mass balance; the processes of the water cycle and the distribution of major stores of water including influential factors; the drainage basin system and its influential factors; the characteristics of river regimes and factors that influence river regimes; the causes of precipitation and excess runoff within the water cycle; the reasons for deficit within the water cycle.</li> <li><b>Understanding:</b> Students will understand how to use the examples to demonstrate influential factors within the water cycle and drainage basin systems and how to apply their understanding to essay based exam questions.</li> </ul>		<p><b>Key Terms / Words:</b></p> <p>System, water cycle, mass balance, drainage basin, river regimes, precipitation, aquifers, carbon cycle.</p>	
<p><b>LP 1 – Week 1 Learning Outcomes: KQ3.1.1</b></p> <ol style="list-style-type: none"> <li>Students will be able to understand the structure and requirements of the A2 theme 3 course.</li> <li>Students will be able to <u>explain</u> the concepts of a system.</li> <li>Students will be able to <u>explain</u> processes of the water cycle, including the concept of mass balance.</li> </ol>		<p><b>Success criteria:</b></p> <p>To explain the concepts of systems and mass balance. Explanation of the processes that operate within the water cycle.</p>	<p><b>Homework LP1 1</b></p>
<p><b>LP 1 – Week 2 Learning Outcomes: KQ3.1.1 (continued) + 3.1.2</b></p> <ol style="list-style-type: none"> <li>Students will be able to <u>describe</u> and <u>assess</u> the characteristics of global water stores.</li> <li>Students will be able to <u>describe</u> and <u>explain</u> how and why water stores have changed in the past.</li> </ol>		<p><b>Success criteria:</b></p> <p>Identification and assessment of the main characteristics of global water stores and the features and operation of the drainage basin system.</p>	<p><b>Homework LP1 2</b></p> <p><b>Revise for APP (GC)</b></p> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
<p><b>LP 1 – Week 3 Learning Outcomes: KQ3.1.2</b></p> <ol style="list-style-type: none"> <li>Students will be able to <u>identify</u> the main features of a drainage basin system and <u>explain</u> how the system operates.</li> <li>Students will be able to <u>identify</u> the main hydrological flows in a drainage basin and <u>explain</u> how they operate within the system.</li> <li>Students will be able to <u>identify</u> the main hydrological outputs in a drainage basin and <u>explain</u> how they operate.</li> </ol>	<div style="border: 2px solid blue; padding: 5px; display: inline-block; margin-bottom: 10px;">APP</div> <div style="border: 2px solid red; padding: 5px; display: inline-block;">Grade:</div>	<p><b>Success criteria:</b></p> <p>Description and explanation of the flows and outputs of a drainage basin system and any possible influential factors.</p>	<p><b>Homework L1 3</b></p>
<p><b>LP 1 – Week 4 Learning Outcomes: KQ3.1.3</b></p> <ol style="list-style-type: none"> <li>Students will be able to <u>identify</u> and <u>describe</u> the main characteristics of river regimes.</li> <li>Students will be able to <u>identify</u> and <u>explain</u> some of the factors that can affect river regimes.</li> </ol>		<p><b>Success criteria:</b></p> <p>To explain temporal variations in river discharge.</p>	<p><b>Homework LP1 4</b></p> <p><b>Revise for SA (GC)</b></p> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>

<p><b>LP 1 – Week 5 Learning Outcomes: KQ3.1.3/4</b></p> <ol style="list-style-type: none"> <li><b>Students will be able to explain</b> how the shape of river hydrographs can be influenced by different climatic factors and processes.</li> <li><b>Students will be able to explain</b> how the shape of river hydrographs can be influenced by different climatic factors and processes.</li> <li><b>Students will be able to explain</b> how the shape of river hydrographs can be influenced by non-climatic catchment factors and processes.</li> </ol>	<div style="border: 2px solid blue; padding: 5px; width: fit-content; margin: 10px auto;">SA</div> <div style="border: 2px solid red; padding: 5px; width: fit-content; margin: 10px auto;">Grade:</div>	<p><b>Success criteria:</b></p> <p>To be able to explain the meaning of lag time, rising limb, falling limb, peak discharge and peak rainfall and their climatic influential factors including precipitation levels and drought.</p> <p>Explain how the impacts of geology and urbanisation influence the shape of hydrographs.</p>	<p><b>Homework LP1 6</b></p> <p><b>Research one major flood event in the UK and produce a presentation of the causes, impacts, strategies, and successes. (GC)</b></p> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto;"></div>
<p><b>LP 1 – Week 6 Learning Outcomes: KQ3.1.4</b></p> <ol style="list-style-type: none"> <li><b>Students will be able to explain</b> how condensation and clouds form.</li> <li><b>Students will be able to explain</b> the mechanisms of precipitation formation.</li> </ol>	<div style="text-align: center;">  </div>	<p><b>Success criteria:</b></p> <p>Explanation of the causes of air uplift, condensation and cloud formation.</p> <p>Explanation of the seeder-feeder mechanism.</p>	
<p><b>LP 1 – Week 7 Learning Outcomes: KQ3.1.5</b></p> <ol style="list-style-type: none"> <li><b>Students will be able to explain</b> why excessive runoff is generated in some climatic zones.</li> <li><b>Students will be able to explain</b> why excessive runoff is generated by certain human activities.</li> <li><b>Students will be able to explain</b> the metrological causes of water cycle deficits.</li> </ol>	<div style="text-align: center;">  </div>	<p><b>Success criteria:</b></p> <p>To explain how monsoons can lead to excessive runoff within the water cycle.</p> <p>Explanation of the metrological and human causes for water cycle deficits including drought and El Nino.</p>	<p><b>Homework LP1 7</b></p>
<p><b>LP 1 – Week 8 Learning Outcomes: KQ3.1.5 + KQ3.1.6</b></p> <ol style="list-style-type: none"> <li><b>Students will be able to explain</b> some of the strategies that are in place to manage aquifers in order to tackle water deficit.</li> <li><b>Students will be able to identify and describe</b> the main elements of the carbon cycle.</li> </ol>	<div style="text-align: center;">  </div>	<p><b>Success criteria:</b></p> <p>Explanation of strategies to manage aquifers.</p> <p>Identification and description of the main elements of the carbon cycle.</p>	<p><b>Homework LP1 8</b></p>

**Please note:** This Learning Programme is subject to change.