

Systems in Physical Geography: The Water & Carbon Cycles – Bridging the Gap Year 11

Answer for the ten questions and activities below. Write your answers on paper, or in the spaces provided.



2. Name the four parts of a physical geography system.



1. From the two systems below, which is an OPEN system and which is a CLOSED system?

Drainage basin system

Global hydrological cycle



9. Define the following drainage basin key terms:

DRAINAGE BASIN:

WATERSHED:



10. Write out how the water balance formula can be expressed as an equation.



7. Research a description of these six main transfers which operate in the carbon cycle: photosynthesis, respiration, decomposition, combustion, burial & compaction and weathering.



3. Research the importance of the chemical element carbon. Include information about its importance to humans, plants and animals.



6. Name the four major physical water stores.



5. Research the link of stored carbon in a tree to the forest fire hazard.



4. Research how much carbon makes up the mass of an average tree.



8. Define the key terms:

ANTHROPOGENIC:

CARBON SEQUESTRATION: