Section A: River Environments

Learning outcomes	✓
Students will be assessed on their ability to: • Describe the components of the hydrological cycle; stores and transfers. • Explain how this is a closed system. • Outline the processes of transfer between stores. • Name and describe the features of a drainage basin, including watershed and channel network (**CS** of a drainage basin).	
Students will be assessed on their ability to: • Describe and label the component s of a hydrograph. • Explain the discharge of contrasting river regimes. • Explain how precipitation, temperature, land use, water abstraction and dams can affect the shape of the hydrograph.	
Students will be assessed on their ability to: • Describe and explain weathering processes (e.g. chemical, biological and mechanical). • Describe and explain how material is moved downslope by mass movement (e.g. creep, slumping).	
Students will be assessed on their ability to: • Describe and explain how sediment is eroded (abrasion, corrosion, hydraulic action), transported (traction, saltation, suspension, solution) and deposited in rivers. • Link these processes to differences in climate, stream velocity, slopes and geology.	
• Students will be assessed on their ability to: • Describe landform change along a river long profile (valley shape, interlocking spurs, waterfalls, meanders, oxbow lakes, flood plains and levees. • Explain how the named landforms are formed by physical processes	
• Students will be assessed on their ability to: • Outline the different, and vital, uses of water (agriculture, industry, human hygiene and leisure) • Contrast the pattern of areas of water shortage with those with a surplus e.g. globally and within a country. • Outline the rising demand for water, and its causes, in one country (**CS**).	
• Students will be assessed on their ability to: • Explain why water quality varies due to pollution (sewage, industry, agriculture) • Explain how clean water is supplied (pipelines, treatment works), and how it is stored (dams and reservoirs) with respect to a **CS** of a water storage project to include construction, management and impacts (e.g. Three Gorges Dam)	