# Rivers

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| Key learning objective | Sub learning objective | Understanding before unit | Example of learning to cover this syllabus point | Understanding at end of unit |
| Explain the main hydrological characteristics and processes which operate within rivers and drainage basins | I understand how the hydrological cycle works |  |  |  |
| I can describe the hydrological cycle as a system |  |  |  |
| I can identify and label the key features of a drainage basin |  |  |  |
| I can describe and explain how a river changes from source to mouth using the bradshaw model and the rivers long profile. |  |  |  |
| Demonstrate an understanding of the work of a river in eroding, transporting and depositing | I understand the different ways in which a river can erode material |  |  |  |
| I understand the 4 ways in which a river transports material |  |  |  |
| Describe and explain the formation of the landforms associated with these processes | I can explain the formation of:   * A river valley * Waterfall * Pothole * Meander * Ox bow lake * Delta * Levees * floodplain |  |  |  |
| I can draw a fully labeled diagram of the above landforms |  |  |  |
| I can identify these features on an OS map |  |  |  |
| Demonstrate an understanding that rivers present hazards and offer opportunities for people | I can draw a flood hydrograph and identify what it shows |  |  |  |
| I can identify the human and physical causes of flooding |  |  |  |
| I can explain the effects of a specific flood- a hazard of living near a river |  |  |  |
| I can explain the benefits of living near a river |  |  |  |
| Explain what can be done to manage the impacts of river flooding | I can describe the difference between hard and soft engineering. |  |  |  |
| I can explain the benefits and costs of using hard and soft engineering on a river area. |  |  |  |
| I can use specific detail to explain how the flood risk is managed in a specific area. |  |  |  |