**RIVERS CHECKLIST**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | 😊 | 😐 | ☹ |
| 1 | The shape of river valleys changes as rivers flow downstream. |  |  |  |
|  | * The long profile and changing cross profile of a river and its valley. |  |  |  |
|  | * Fluvial processes: |  |  |  |
|  | * + Erosion: |  |  |  |
|  | * + - Hydraulic power     - Abrasion     - Attrition     - Solution     - Vertical and lateral erosion |  |  |  |
|  | * + Transportation: |  |  |  |
|  | * + - Traction     - Saltation     - Suspension     - Solution |  |  |  |
|  | * Deposition – why rivers deposit sediment. |  |  |  |
| 2 | Distinctive fluvial landforms result from different physical processes. |  |  |  |
|  | * Characteristics and formation of landforms resulting from erosion – |  |  |  |
|  | * + Interlocking spurs   + Waterfalls   + Gorges |  |  |  |
|  | * Characteristics and formation of landforms resulting from erosion and deposition - |  |  |  |
|  | * + Meanders   + Oxbow lakes |  |  |  |
|  | * Characteristics and formation of landforms resulting from deposition - |  |  |  |
|  | * + Levées   + Flood plains   + Estuaries |  |  |  |
|  | * + An **example** of a river valley in the UK to identify its major landforms of erosion and deposition. |  |  |  |
| 3 | Different management strategies can be used to protect river landscapes from the effects of flooding. |  |  |  |
|  | * How physical and human factors affect the flood risk - |  |  |  |
|  | * + Precipitation   + Geology   + Relief   + Land use |  |  |  |
|  | * The use of hydrographs to show the relationship between precipitation and discharge. |  |  |  |
|  | * The costs and benefits of the following management strategies: |  |  |  |
|  | * + Hard engineering |  |  |  |
|  | * + - Dams and reservoirs     - Straightening     - Embankments     - Flood relief channels |  |  |  |
|  | * + Soft engineering |  |  |  |
|  | * + - Flood warnings and preparation     - Flood plain zoning     - Planting trees     - River restoration |  |  |  |
|  | * An **example** of a flood management scheme in the UK to show: |  |  |  |
|  | * + Why the scheme was required   + The management strategy   + The social, economic and environmental issues |  |  |  |

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