**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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