

River landscapes

in the UK

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# Using this booklet

Welcome to the Internet Geography Work Booklet for the River Landscapes in the UK. There are a range of resources on Internet Geography to support you studying this unit. Head over to <https://www.internetgeography.net/aqa-gcse-geography/physical-landscapes-in-the-uk/> to access them.

As well as the resources in this booklet, there are a number of online quizzes to check your learning as you work your way through this booklet.

 This icon lets you know when you should attempt the online quizzes developed to support your learning and check your knowledge. Your scores should be recorded on the tracking table at the back of this booklet. It is useful to revisit the quizzes to help your learning stick.

QR codes are included throughout the booklet to support you in researching the information you need to complete the activities. You will need to download a free QR code scanner to your mobile phone or tablet. Just go to your app store and search for “QR Code scanner” and download a free one.

After each section in this booklet there is a summary page for you to record the main points for each sub-topic. We recommend you use dual coding for this. Dual coding sounds a bit complicated, however, it’s not. It simply involves combining text and images when you are studying. There are many ways you can present text and images, such as with infographics, timelines, cartoon strips, diagrams, and graphic organisers. We’ve pulled together a guide to help you do this with examples on Internet Geography. Either go to <https://www.internetgeography.net/dual-coding/> or scan the QR code below.



# Introduction to river landscapes

There are a number of key words you need to know about river landscapes.

Complete the key terms list below by adding the correct definitions.

|  |  |
| --- | --- |
| **Long profile**  |  |
| **Cross profile** |  |
| **Fluvial processes** |  |
| **Erosion** |  |
|  **Deposition** |  |
| **Transportation** |  |
| **River landforms** |  |
| **Depositional landforms** |  |
| **Hydrographs** |  |
|  **Hard engineering** |  |
|  **Soft engineering** |  |



## Check your learning

Head over to www.internetgeography.net/wb40 and complete the key word quiz. Add your score for quiz 1 on the recording sheet.

# A picture containing piece  Description automatically generatedRivers and river valleys

What is the long profile of a river?

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Produce a sketch to show the long profile of a river. Identify the upper, middle and lower course. Add a step, or waterfall to the diagram.



What is the cross profile of a river?

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Complete the table below to show and explain the characteristics of the cross profile of a river from upper to lower course.

|  |  |  |
| --- | --- | --- |
| **Sketch of cross-profile** | **Physical characteristics** | **The reasons for this is…** |
| Upper course |  |  |
| Middle course |  |  |
| Lower course |  |  |



## Check your learning

Head over to www.internetgeography.net/wb41 and complete the key word quiz. Add your score for quiz 2 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# What are fluvial processes?

What is erosion?

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Complete the table below to describe the processes of erosion.

|  |  |
| --- | --- |
| **Process** | **Description** |
| **Hydraulic action** |  |
| **Abrasion** |  |
| **Attrition** |  |
| **Solution** |  |
| **Vertical erosion** |  |
| **Lateral erosion** |  |

## Check your learning

Head over to www.internetgeography.net/wb42 and complete the key word quiz. Add your score for quiz 3 on the recording sheet.

What is transportation?

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Complete the table below to describe the processes of transportation.

|  |  |
| --- | --- |
| **Process** | **Description** |
| **Traction** |  |
| **Saltation** |  |
| **Suspension** |  |
| **Solution** |  |

Draw a simple diagram to show the processes of transportation.

## Check your learning

Head over to www.internetgeography.net/wb43 and complete the key word quiz. Add your score for quiz 4 on the recording sheet.



What is deposition?

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When does a river deposit sediment?

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Annotate the diagram below to show where deposition can occur along a river.





## Check your learning

Head over to www.internetgeography.net/wb44 and complete the key word quiz. Add your score for quiz 5 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# River landforms of erosion

Complete the table below to describe the characteristics of each river landform and
explain their formation.

|  |
| --- |
| **Interlocking Spurs** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |
| **Waterfalls** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |
| **Gorges** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |
| **Meanders** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |
| **Oxbow Lakes** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |



## Check your learning

Head over to www.internetgeography.net/wb45 and complete the key word quiz. Add your score for quiz 6 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# A picture containing black  Description automatically generatedRiver landforms of deposition

Complete the table below to describe the characteristics of each depositional river landform

and explain their formation.

|  |
| --- |
| **Levées** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |
| **Floodplains** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |
| **Estuaries** |
| **Diagram** |
| **Description (characteristics)** | **How are they formed? (explanation)** |
|  |  |



## Check your learning

Head over to www.internetgeography.net/wb46 and complete the key word quiz. Add your score for quiz 7 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# River management strategies

A flood occurs when water can no longer be contained within a river channel.

The flood risk of a river can be increased by human and physical factors. Complete the diagrams below to identify and explain these human and physical factors.

What is a hydrograph?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Annotate the hydrograph below to show its main features.



Describe the human/physical causes of a flashy rapid response hydrograph posing a high flood risk, as shown below.



Physical \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Human\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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## Check your learning

Head over to www.internetgeography.net/wb47 and complete the key word quiz. Add your score for quiz 8 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# A picture containing text, crossword puzzle  Description automatically generatedRiver management strategies

Complete the table below about the main hard engineering strategies.

|  |  |  |  |
| --- | --- | --- | --- |
| **Strategy**  | **Sketch** | **Costs** | **Advantages** |
| **Dams and reservoirs** |  |  |  |
| **Channel straightening** |  |  |  |
| **Embankments** |  |  |  |
| **Flood relief channels** |  |  |  |



## Check your learning

Head over to www.internetgeography.net/wb48 and complete the key word quiz. Add your score for quiz 9 on the recording sheet.

Complete the table below about the main soft engineering strategies.

|  |  |  |  |
| --- | --- | --- | --- |
| **Strategy**  | **Sketch** | **Costs** | **Advantages** |
| **Flood warnings** |  |  |  |
| **Floodplain zoning** |  |  |  |
| **Afforestation**  |  |  |  |
| **River restoration**  |  |  |  |



## Check your learning

Head over to www.internetgeography.net/wb49 and complete the key word quiz. Add your score for quiz 10 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# An example of a flood management scheme in the UK

Case study location:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reasons for management

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Management strategies

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Social issues

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Economic issues

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Environmental issues

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## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# Check your learning recording table

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Attempt 1** | **Attempt 2** | **Attempt 3** |
| Quiz 1www.internetgeography.net/wb40/ | /9 | /9 | /9 |
| Quiz 2www.internetgeography.net/wb41/ | /10 | /10 | /10 |
| Quiz 3www.internetgeography.net/wb42/ | /10 | /10 | /10 |
| Quiz 4www.internetgeography.net/wb43/ | /10 | /10 | /10 |
| Quiz 5www.internetgeography.net/wb44/ | /5 | /5 | /5 |
| Quiz 6www.internetgeography.net/wb45/ | /10 | /10 | /10 |
| Quiz 7www.internetgeography.net/wb46/ | /10 | /10 | /10 |
| Quiz 8www.internetgeography.net/wb47/ | /10 | /10 | /10 |
| Quiz 9www.internetgeography.net/wb48/ | /10 | /10 | /10 |
| Quiz 10www.internetgeography.net/wb49/ | /8 | /8 | /8 |