Unit 202: Changing practices over time

Worksheet 1: Menai Suspension Bridge (Learner)

Task 1: Groundworks activity

In this activity, you will learn about the ground works involved in the construction of the Menai Suspension Bridge. You will explore the challenges faced during the excavation and ground preparation process, and learn about the tools and techniques used by the workers to create a solid foundation for the bridge.

Research the Menai Suspension Bridge and its construction, focussing on the ground works involved in creating the foundation for the towers. Use the case study provided or online resources or books to gather information about the construction process and the challenges faced by the workers during excavation and ground preparation.

1. What were some of the challenges faced during excavation and ground preparation for the Menai Suspension Bridge?

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1. What tools and techniques were used by the workers to excavate and prepare the site?

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1. What materials were used to create a solid foundation for the bridge?

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1. How was the scaffolding anchored to the bedrock?

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1. What is a cofferdam and how was it used in the construction of the Menai Suspension Bridge?

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1. What type of stone was used to construct the tower foundations, and where was it sourced from?

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Task 2: Challenges faced by the Menai Bridge

Research the Menai Suspension Bridge and its construction, focussing on the ground works involved in creating the foundation for the towers. Use online resources or books to gather information about the construction process and the challenges faced by the workers during excavation and ground preparation.

Write an approximately 300 words essay based around the following questions:

* What were some of the challenges faced during excavation and ground preparation for the Menai Suspension Bridge?
* What tools and techniques were used by the workers to excavate and prepare the site?
* What materials were used to create a solid foundation for the bridge?
* How was the scaffolding anchored to the bedrock?

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