

Task Number	3	Task Name	Water Management System
Course	Year 7 HSIE	Faculty	HSIE
Teacher	Dunlop, Foster, Selwood	Head Teacher	Mr J Selwood
Issue date	Week 7	Due date	Week 9, Term 3 2024
Focus (Topic)	Water In The World	Task Weighting	30%

Outcomes

GE4-2: Describes processes and influences that form and transform places and environments.
 GE4-4: Discusses the management of places and environments for their sustainability.
 GE4-8: communicates geographical information using a variety of strategies

Task description

As junior geographers, you have been appointed as environmental consultants for your school. Your task is to design a catchment management and water conservation strategy for the school site. This strategy will address the water-related challenges faced by the school, while ensuring sustainable practices. and promoting positive interactions with the environment.

Instructions:

PART 1 - Site Analysis - Fieldwork booklet

10 marks

Using your fieldwork booklet, conduct fieldwork on the school site to identify the operation of the water cycle at school, any water management issues and existing water management practices.

- Describe the processes and influences that impact the school's catchment and water systems.
 - Identify the potential sources of water-related issues on the school site, such as runoff, flooding, or inadequate water supply.
- Create a map of the school site and surrounding environment that includes the above features, using BOLTS elements.

Part 2 - Water Strategy - Map Design

10 Marks

*Design a sustainable water management strategy to solve some of the problems with water at RRHC. **Make a map and write a 2 - paragraph report** to explain your design. This could include:*

- Water conservation measures for indoor and outdoor use (e.g., rainwater harvesting, irrigation practices).
- Stormwater management techniques to minimize runoff and flooding (e.g., permeable surfaces, rain gardens).
- Measures to enhance the natural water systems and habitat for local flora and fauna.
- Explain how your strategy contributes to sustainable water management and positively impacts the local environment.
- Present your water management strategy in a creative and visually appealing manner. You can use a combination of written text, diagrams, maps, and illustrations to communicate your ideas effectively.

Marking Criteria - Fieldwork booklet					
Grade Outcomes	Outstanding (9-10)	High (7-8)	Sound (4-6)	Basic (2-3)	Limited (0-1)
GE4-2: .	Fieldwork analysis describes water and catchment processes at more than 5 locations on the RRHC site, explains the likely impacts of these processes on the site.	Describes water and catchment processes in at least 5 locations on the RRHC site, describes the likely impacts of these processes on the site.	Describes water and catchment processes at 3-4 locations on the RRHC, describes the likely impacts of these processes on the site.	Describes water and catchment processes at some locations on the RRHC site, may identify impacts.	Booklet completed with support/scaffolding , Incomplete RRHC map and fieldwork analysis.
GE4-8:	Neatly and accurately completes climate graph with all data, labels and axes correctly presented. Booklet maps are complete with appropriate and usable legend, RRHC fieldwork map identifies >5 relevant processes. Uses a range of relevant terminology to explain impacts and processes.	Accurately completes climate graph with all data, labels and axes correctly presented. Booklet maps are complete with appropriate legend, fieldwork map identifies at least 5 relevant processes. Uses relevant terminology to describe impacts and processes.	Completes climate graph with some data, labels and axes correctly presented. Booklet maps are complete with legend, fieldwork map identifies 3-4 relevant processes. Uses some relevant terminology to identify plain processes.	Booklet completed with support/ scaffolding, Attempts to complete climate graph. Attempts booklet maps. fieldwork map may identify some relevant processes. May name some relevant terminology.	Booklet completed with support/ scaffolding, Little or no attempt to complete the graph and/or fieldwork map.
Marking Criteria - Map Design					
Grade Outcomes	Outstanding (9-10)	High (7-8)	Sound (4-6)	Basic (2-3)	Limited (0-1)
GE4-4: .	Design includes a range of strategies that improve sustainability in a number of ways. The purpose of each strategy is explained.	Design includes multiple strategies that improve sustainability. The purpose of each strategy is explained.	Design includes strategy/ies that improve sustainability. The design is described and may explain purpose. .	With support/ scaffolding, may include sustainable strategy/ies, may attempt to describe the design.	With support/ scaffolding, limited design attempt.
GE4-8:	Map of the school site contains all of the relevant BOLTS features. Legend symbols are used appropriately and consistently. Explanation of design uses a range of relevant terminology.	Map of the school site contains relevant BOLTS features. Legend symbols are used appropriately and consistently. Explanation of design uses relevant terminology.	Map of the school site contains BOLTS features. Legend symbols are used. Describes design using some relevant terminology.	With support/ scaffolding, may include some BOLTS features, may include Legend, May attempt to describe design.	With support/ scaffolding, limited attempt at map/design/ explanation.