

GCSE Coasts Investigation

Pre-course activity

Name: _____

1. Coastal processes & landforms

What are the four key erosional processes taking place on the coast?

1) _____ 3) _____

2) _____ 4) _____

In what ways can beach sediment be transported by the sea?

How does erosion and transportation affect how the beach and coastline looks?

What could we measure to investigate these processes?

2. Name of coastal location: _____

Location

National:

Regional:

Local:

3. What are the main physical and human interactions at the coastline you are studying?

		What impact will this have on your study location?
Physical	Fetch	
	Geology and coastal features	
	Other – storm occurrence, tidal range etc.	
Human	Main economic use of the location	
	Key infrastructure, such as sea defences, railway lines, ports, monuments	
	Other observations	

4. Shoreline Management Plan

Write the titles to the 4 possible actions of a shoreline management plan

Option name: _____ Intervene against coastal erosion with hard or soft engineering to prevent any further shoreline retreat	Option name: _____ Realignment of the coast to a pre-determined line some distance further inland.
Option Name: _____ Extend the coast into what is currently sea	Option name: _____ Allow erosion and cliff retreat to continue

5. Investigation title: _____

6. Predictions

On your trip we will make a hypothesis, but for now, let's think about what we could measure and what you predict it will show you at the coast?

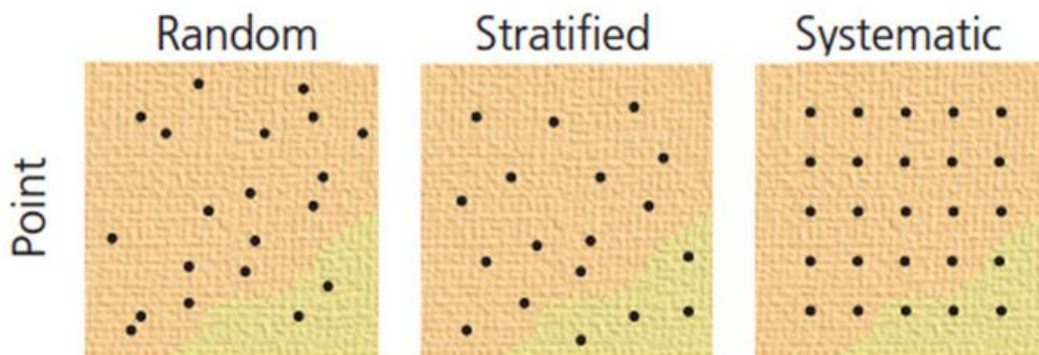
1

2

3

7. Sample strategies

There are 3 key probability sampling methods. Use the StoryMap and diagrams below to answer the questions on the following sheet.



Which sample strategy have you selected for our investigation?

Justify your choice:

Explain the limitations of the other options:

8. Next steps

Before you begin your trip to the coast, consider these next steps of the investigation:

What data could be collected to answer the predictions? (We call these valid variables)

What hazards might we face when collecting data in a coastal environment. How we will we work safely?

Don't forget to bring this completed sheet with you for your fieldwork day!