Work Booklet

Evaluate the Effectiveness of Coastal Management Strategies on a Stretch of Coastline

Name and Tutor group:	Teacher:

Questions to answer at the top of the Cliffs

1) What evidence is there at the top of the cliffs that the cliffs have eroded in the past?

_____

_____

_____

2) Fill in the table below every time you come across a different type of coastal management (description important)

Name	Hard/Soft	Description

Questions to answer at the top of the Cliff

Use the information Board near the top of the stairs or ask someone who has seen it for these answers

The Crag Walk

When was the Crag Walk Built?

Name some of the 'partners' involved in the project.

Where did the rip rap for the Crag Walk come from?

What is the Crag Walk protecting?

What do the cliffs behind the Crag Walk look like?

Face south towards the **Managed Zone**. The average property value in Walton on the Naze is £230,000.

Count the number of properties that you can see that are being protected in the managed zone and then multiply that number by £230,000 in order to figure out the value of the property being protected by the management in the managed zone.

Value of property in the managed zone: £

What are these concrete things on the beach and what does this tell us about erosion here? **Explain**.

Managed Zone Data Collection

Beach Profile

Distance Along Transect (m)	Clinometer reading (°)	Infiltration Rate (mm/min) 15s 30s 1min
0m		
2m		
4m		
6m		
8m		
10m		
12m		
14m		
16m		
18m		

Sediment Size Guide

Cobbles: Any rocks which are larger than your fist.

Pebbles: Rocks and other sediment smaller than your fist but larger than 2mm across

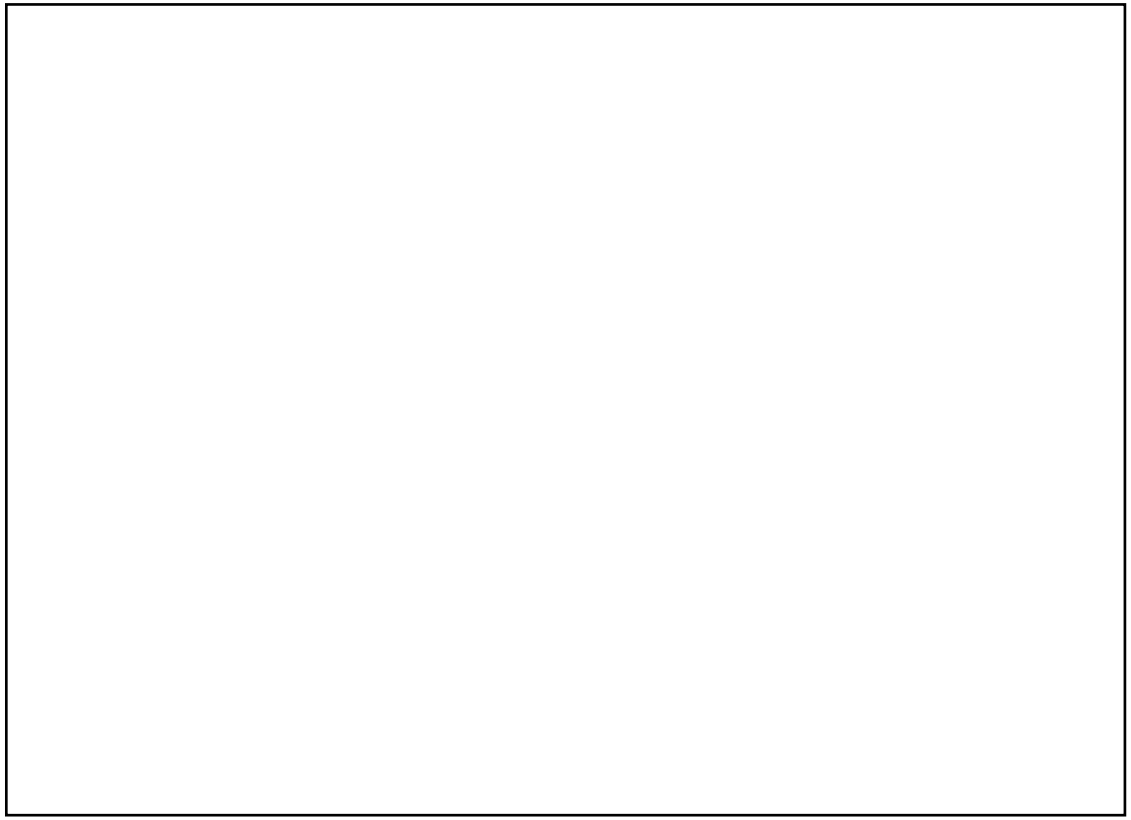
Sand: Anything less than 2mm in diameter. Figure out what the % coverage is for cobbles and pebbles and then whatever is left over will be sand

Clay: Only include if the wave cut platform is exposed

Sediment Size Between Groynes

	Cobbles %	Rocks %	Sand %	Clay %
0m				
3m				
6m				
9m				
12m				
15m				
18m				
21m				
24m				
27m				
30m				

Managed Zone Field Sketch



Complete whilst sat on sea wall facing south

Unmanaged Zone Data Collection

Beach Profile

Distance Along Transect (m)	Clinometer reading (°)	Infiltration Rate (mm/min) 15s 30s 1min
0m		
2m		
4m		
6m		
8m		
10m		
12m		
14m		
16m		
18m		

Wave Count

1st Minute	
2nd Minute	
3rd Minute	
Average	

Less than 8 per minute = Constructive

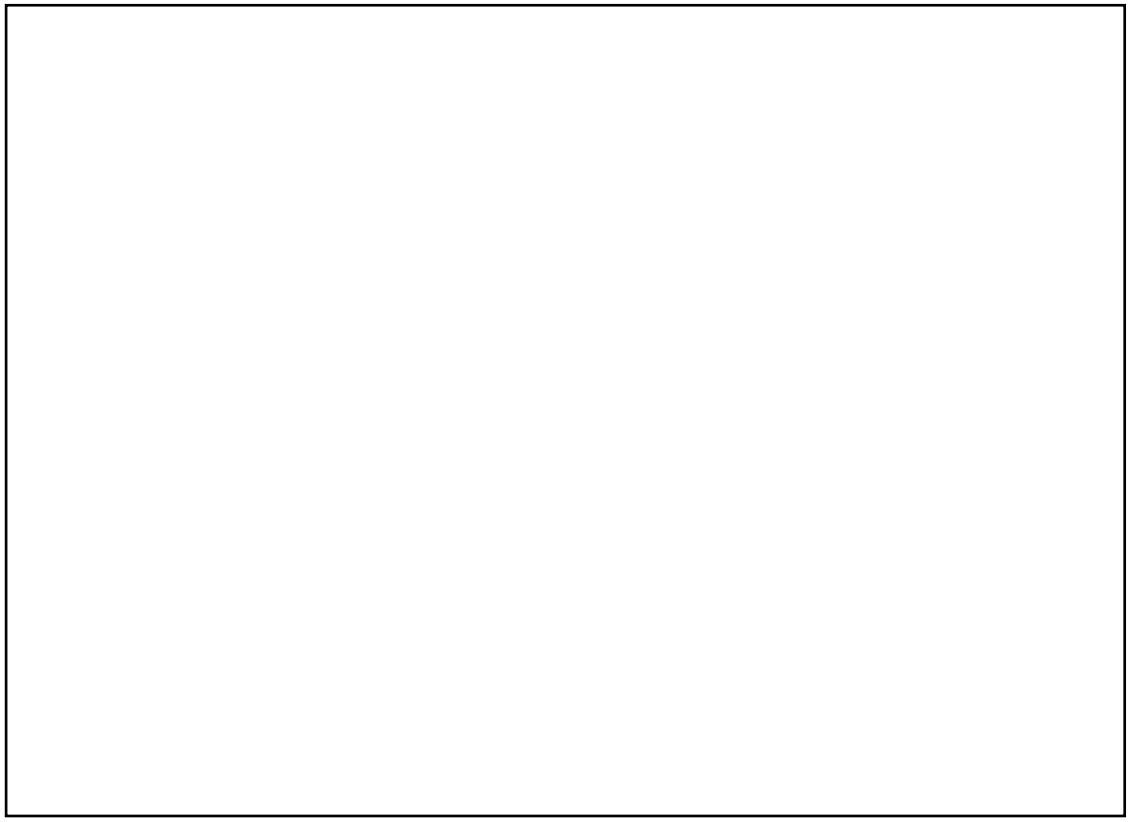
More than 10 per minute = Destructive

Direction of Longshore Drift

Quick Evaluation - If there were any problems with your data describe them below

Techniques	Description of problems
Beach profile	
Infiltration Rate	
Sediment size	

Unmanaged Zone Field Sketch



Complete at top of stairs on Crag Walk