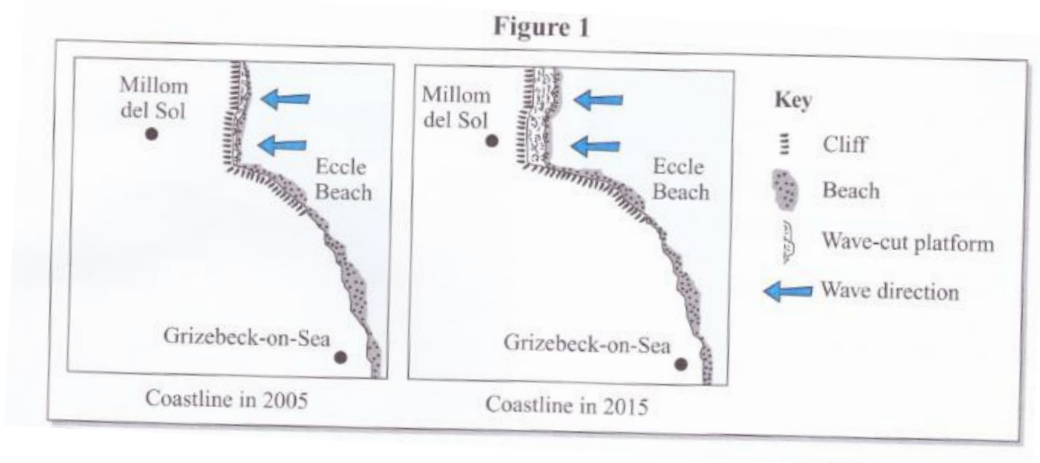


Coasts

1. Study Figure 1



Describe the change to the coastline shown in Figure 1.

(2 marks)

2. Describe **two** processes of erosion that could have caused the changes shown in Figure 1

(4 marks)

Process 1

Process 2

3. Explain how the process of freeze thaw works to cause changes to cliffs

(4 marks)

4. Contrast the processes of chemical and mechanical weathering.

(4 marks)

5. Describe three processes of mass movement that occur along coastlines

(6 marks)

Process 1 name _____

Process 2 name _____

Process 3 name _____

6. Explain why sediment is deposited in coastal areas.

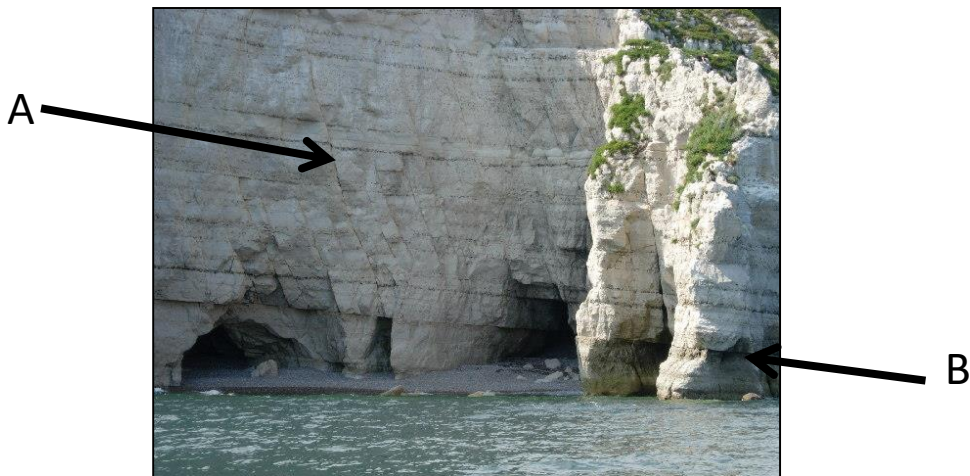
(4 marks)

7. Which **one** of the following landforms are created as a result of deposition in a coastal area?

(1 mark)

- a) Headland
- b) Stack
- c) Spit
- d) Cave

8. Study Figure 1 which shows an area of chalk at the coast.



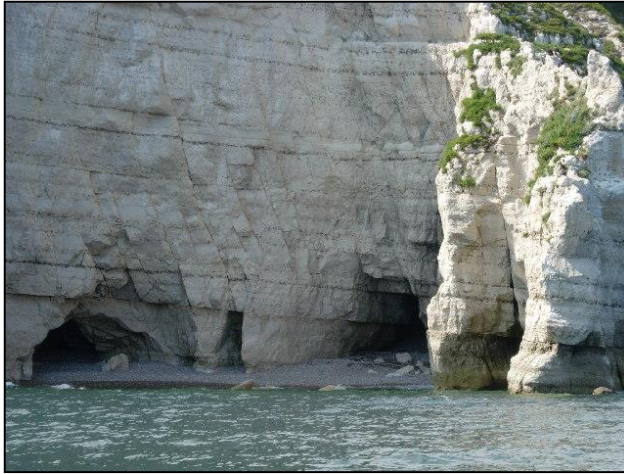
Identify the correct name of the features of the geology shown by the letters on Figure 1 by circling the correct answer.

(2 marks)

- A Joint / Bedding plane
- B Joint / Bedding plane

9. Study Figure 1 which shows an area of chalk at the coast.

Figure 1



Using Figure 1 and your own knowledge, explain how the geology shown in Figure 1 affects the landforms that occur along a chalk coast. (4 marks)

10. Study Figure 2 which shows boulder clay cliffs

Figure 2



10. With reference to Figure 2 and your own knowledge, explain how the geology of the cliffs shown in Figure 2 affect the coastal processes that occur there. (4 marks)

11. Explain how headlands and bays are formed along a coastline. (6 marks)

12. Describe the geology that must be present along a coastline for headlands and bays to form (2 marks)

13. Study Figure 3 which shows a wave cut platform.

Figure 3



With reference to Figure 3 and your own knowledge, explain how a wave cut platform is formed. (4 marks)

14. With reference to Figure 3 and your own knowledge, assess whether an arch could form in the section of coastline shown. (6 marks)

15. Study Figure 4, a coastal stack.

Figure 4



Describe the main processes that are involved in the formation of a coastal stack (2 marks)

16. Explain how sand dunes form along a coastline (4 marks)

17. Describe what a coastal bar landform is (2 marks)

31. Which **one** of these coastal management strategies involves removing coastal protection from along coastal areas? (1 mark)

- a) Beach nourishment
- b) Beach reprofiling
- c) Coastal realignment
- d) Dune regeneration

32. Outline one advantage of beach reprofiling. (2 marks)

33. Describe how beach reprofiling reduces coastal erosion. (2 marks)

34. Study Figure 9 showing an area of coastline



Identify the coastal management strategy shown in Figure 9 (1 mark)

37. To what extent is soft engineering more sustainable than hard engineering to reduce erosion at the coast? (6 marks)

38. With reference to a coastal management scheme in the UK you have studied, explain why coastal management is needed. (4 marks)

39. With reference to a coastal management scheme in the UK you have studied, describe the coastal management strategies in place. (4 marks)
