

Lesson one – coasts- How the sea shapes the land.

Key terms:

Erosion – the wearing away and the removal of rock by the waves.

Deposition- the laying down of material carried by the waves.

Use page 59 from the resource book below and the KS3 bitesize link....to answer the following questions:

1. What affects the height and speed of a wave?
2. What do the terms “swash” and “backwash” mean?
3. Draw and label diagrams to show the features of: a) a constructive wave and b) a destructive wave.
4. Draw a table with the headings: Constructive and destructive waves and put the following phases into the correct column:
 - Causes a lot of erosion
 - Causes more deposition than erosion
 - Operate in calmer water
 - Operate in storm conditions
 - The swash is strong
 - The backwash is strong
 - Can be several metres high

Extension: Describe the location of the following sea areas around the UK: The English Channel, The North Sea and The Irish Sea.

Lesson two- coasts – How waves erode the coastline.

1. Unscramble the words below to find 5 ways that the sea erodes the coastline.

*crudyhila nicota

*Weav pignound

*norattiti

*racoonsir

*brasaoni

Explain how each process works. You can add diagrams to help illustrate each process.

2. Study the paragraph below which gives information about coastal processes.

The power of the sea wears away the coast to produce features such as headlands, cliffs and bays. The powerful waves hit the cliffs so air is trapped in cracks in the rocks. The explosive force breaks the rocks apart. Waves and currents transport pieces of rock along the coast. The rock particles are deposited to form beaches further along the coast. Waves pick up some pieces of rock and throw the rocks against the cliff, wearing the cliff away. Seawater dissolves limestone and chalk cliffs; this process is called solution.

Give three causes of coastal erosion. Use the information from the paragraph above.

1.

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2.

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3.

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Extension: Would waves tend to be more powerful along the South West coast of the UK or along the South East coast of the UK? Give reasons for your answer.