

Chichester Harbour Education A-Level Geography Fieldwork

Session Opportunities Location: East Head and West Wittering beach	Fieldwork techniques/methods	Geographical Skills
<p>Fieldwork session A Coastal Landforms –Spits, Beaches, Saltmarsh & Sand Dunes</p> <p>Students will be studying an accessible, fascinating and dynamic part of the UK coastline, exploring a coastal environment first-hand, which has constant change to its physical landforms.</p> <p>Students consider the origin and development of the local coastal landscape, in particular the beach, spit, sand dunes and saltmarsh, the factors and processes in their development.</p> <p>Opportunity to study ecology and succession of coastal landforms/environments and consider the importance of saltmarsh for coastal biodiversity, combating erosion and as a carbon store.</p>	<ul style="list-style-type: none"> ▪ Map/diagram annotation and recording written information on spits, beaches and sand dunes ▪ Beach profile transect survey to look at change over time and the affect of longshore drift ▪ Sand dune transect to study succession & adaptations ▪ Saltmarsh transect to study succession & adaptations ▪ Field sketches, photographs of landforms ▪ Bi-polar surveys 	<p>Investigative/Graphical- Hypotheses Selecting, measuring & recording appropriate data for chosen study and presentation/analysis in school Consider H&S risks</p> <p>Map skills – comparing OS/satellite/photographs and field sketch</p> <p>Mathematical/Statistical – Opportunity to record quantitative data, to consider accuracy and sample size and draw conclusions. Data can be collected for statistical analysis.</p>
<p>Fieldwork Session B Chichester Harbour as a Coastal System</p> <p>Students will consider the inputs/outputs, processes and stores that impact on the coastal landscape within and around the Harbour. Discuss the relevant sediment cells and sources of sediment. Students will consider the different geomorphic processes taking place in the area such as weathering, erosion, transportation and deposition.</p> <p>Fieldwork opportunities to study long shore drift and sediment analysis.</p>	<ul style="list-style-type: none"> ▪ Map/diagram annotation & written ▪ Groyne field transect survey ▪ Sediment and pebble roundness survey ▪ Groyne sediment height survey ▪ Longshore drift investigation ▪ Field sketches 	<p>Investigative/Graphical- Hypotheses Selecting, measuring & recording appropriate data for chosen study and presentation/analysis in school Consider H&S risks</p> <p>Map skills – comparing OS/satellite/photographs and field sketch</p> <p>Mathematical/Statistical – Opportunity to record quantitative data, to consider accuracy, sample size and draw conclusions. Data can be collected for statistical analysis such as the t-test to investigate changes in pebble roundness.</p>

Session Outline Location: East Head and West Wittering beach	Fieldwork techniques/methods	Geographical Skills
<p>Fieldwork Session C Coastal Management Case Study</p> <p>Students will consider how human intervention impacts on the coastal landscape.</p> <p>We will study the different management techniques, a variety of soft and hard engineered sea defences at the site.</p> <p>We discuss the current coastal management strategy -‘Adaptive Management’ and the most recent changes to the site. We will consider the idea of integrated coastal zone management and sustainable management schemes. We discuss the views of the different stakeholders and consider the possible conflicts of the East Head coastal management scheme.</p> <p>There is also an opportunity to look at how the National Trust manage East Head for the benefit of the landform, wildlife and visitors.</p>	<ul style="list-style-type: none"> ▪ Annotation of maps & written notes to explain coastal management at site ▪ Sea defence chart and bi-polar surveys ▪ Field sketches ▪ Conflict matrix ▪ Visitor questionnaires ▪ Sand Dune Footpath transect 	<p>Investigative/Graphical- Hypotheses Selecting, measuring & recording appropriate data for chosen study and presentation/analysis in school Consider H&S risks</p> <p>Map skills – comparing OS/satellite/photographs and field sketch</p> <p>Mathematical/Statistical – Opportunity to record quantitative data, to consider accuracy and sample size and draw conclusions</p>

For more information, a sample programme, or to book please contact Chichester Harbour Education Centre
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