

# KESTEVEN AND SLEAFORD HIGH SCHOOL

## Geography Scheme of Learning Year 11 – Term 1/Unit 1/Physical Fieldwork

### Intent – Rationale

As part of the GCSE Geography AQA specification, students are required to undertake two geographical enquiries, each of which must include the use of primary data, collected as part of a fieldwork exercise. There should be a clear link between the subject content and geographical enquiries, and the enquiries can be based on any part of the content taught. The two enquiries must be carried out in contrasting environments and show an understanding of both physical and human geography. The students at KSHS visit Hunstanton.

Sequencing – what prior learning does this topic build upon?	Sequencing – what subsequent learning does this topic feed into?
<ul style="list-style-type: none"> <li>Data collection/presentation skills taught in K34 (crime survey, microclimate survey) and Y10 – field sketches, questionnaires, environmental quality surveys, annotated photographs, bar charts, line graphs, pie charts, divided bar charts, statistics (mean, median, mode, range, inter-quartile ranges)</li> <li>Coasts (Y7) – coastal processes of erosion, transportation and deposition</li> <li>Coastal Landscapes (Y10) – coastal processes and coastal management.</li> <li>Y10 Human Fieldwork – retrieval of knowledge about how to conduct a fieldwork enquiry</li> </ul>	<ul style="list-style-type: none"> <li>Non-examined coursework (NEA) – Y12/Y13</li> </ul>
What are the links with other subjects in the curriculum?	What are the links to SMSC, British Values and Careers?
<ul style="list-style-type: none"> <li>Maths Manipulation of quantitative data Data presentation methods – line graphs, bar charts, pie charts, divided bar charts Statistical analysis – mean, median, mode, standard deviation</li> </ul>	<ul style="list-style-type: none"> <li>Spiritual development 4 – evaluation of fieldwork experience</li> <li>Careers: Gatsby Benchmark 4 GB4 a) communication in group work b) confidence in presenting ideas, g) teamwork – working</li> </ul>

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	in groups collecting data, h) IT and computing skills – presenting data
<b>What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?</b>	<b>What are the opportunities for developing mathematical skills?</b>
	<ul style="list-style-type: none"> <li>• Manipulation of quantitative data</li> <li>• Data presentation methods – line graphs, bar charts, pie charts, divided bar charts</li> <li>• Statistical analysis – mean, median, mode, standard deviation</li> </ul>

## Geography Scheme of Learning Year 11 – Term 1 – Physical Fieldwork

### Intent – Concepts

What knowledge will students gain and what skills will they develop as a consequence of this topic?
<p style="text-align: center;"><b><u>Know</u></b></p> <ul style="list-style-type: none"> <li>• what a fieldwork enquiry is and the ‘route to enquiry’ (planning pathway for investigation)</li> <li>• different methods of data collection for the Hunstanton enquiry questions and for a river enquiry</li> <li>• how to present data using a range of techniques</li> <li>• how to analyse the data we have collected and presented</li> <li>• how to write a conclusion by referring back to the enquiry question</li> </ul> <p style="text-align: center;"><b><u>Apply</u></b></p>

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- knowledge to define key terms including primary/secondary data, quantitative/qualitative data and random/systematic/stratified sampling/risk assessment and how to mitigate risk
- knowledge and understanding to justify the data collection and data presentation methods

## Extend

- understanding of the limitations of the data collection and data presentation by explaining the limitations of the fieldwork and evaluating its outcomes
- assess the extent to which the accuracy of the results and the reliability of the conclusions could be improved.

What subject specific language will be used and developed in this topic?	What opportunities are available for assessing the progress of students?
<p>Enquiry question  Primary data  Secondary data  Quantitative data  Qualitative data  Sampling  Systematic sampling  Random sampling  Stratified sampling  Control group  Risk assessment  Continuous data  Discrete data  Line graph  Bar graph  Histogram  Pie chart  Divided bar chart  Scattergraph  Dispersion graph</p>	<p>Research into secondary data of Hunstanton – information about the Shoreline Management Plan and Hunstanton’s transport strategy.</p> <p>Fieldwork booklets for the Physical enquiries will be marked with feedback</p> <p>Assessment on unfamiliar fieldwork</p> <p>Assessment on Familiar Fieldwork will take place in T2 and T5 nearer the final paper 3 exam</p>

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Choropleth map Isoline map Desire line map Flow line map Proportional symbol map Mean Median Mode Inter-quartile range Trend line Bivariate data	
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## Intent – Concepts

Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
1: Introducing the physical fieldwork enquiry: Hunstanton	<p>To revise what a fieldwork enquiry is and the 'route to enquiry' (planning pathway for investigation)</p> <p>To be able to discuss the aims and hypothesis of our geographical enquiry in Hunstanton</p>	To revise how to define primary/secondary data, quantitative/qualitative data and random/systematic/stratified sampling/risk assessment and how to mitigate risk	<p>AQA textbook pages 306-309</p> <p>Powerpoint 1</p> <p>Hunstanton introduction powerpoint</p> <p>Hunstanton booklet</p>
2. Data collection methods	To know the different methods of data collection for the Hunstanton enquiry	To be able to justify the data collection methods we will use in Hunstanton and explain the advantages and disadvantages of	<p>Hunstanton introduction powerpoint</p> <p>Hunstanton booklet introductory powerpoint tasks</p>

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		a range of data collection methods (limitations)	Teach it Powerpoint on Coastal Fieldwork
3. Fieldtrips!			
4/5 Data presentation methods	To know how to present data using a range of techniques	To be able to justify the presentation techniques used and explain some of the advantages and disadvantages of these presentation techniques (limitations)	Group work presenting data from fieldtrip. Teach it Powerpoints on Fieldwork – Coastal Fieldwork AQA Oxford textbook pages 320-321
6/7 Data analysis, conclusion and evaluation	To know how to analyse the data we have collected and presented and be able to make an overall conclusion by answering the enquiry question	To be able to evaluate our fieldwork results and assess the extent to which the accuracy of the results and the reliability of the conclusions could be improved.	Group work – analysing and evaluating data. Hunstanton powerpoint, Teach it Powerpoints on Fieldwork – Coastal Fieldwork AQA Oxford textbook pages 322-325
8 and homework tasks: Fieldtrip summary sheets and exam questions	To be able to complete the human and physical enquiry question booklets with relevant information	To be able to answer past examination questions about familiar fieldwork	Fieldwork booklets – Human and Physical Exam Question sheets from past papers
9.Unfamiliar fieldwork assessment			Based on past paper questions from unfamiliar fieldwork – paper 3 and in mock exams in Y11 T2 and T5 Revision clock to be used to help students revise for this