

Geology

OCR AS GCE H087 Unit F793 & Advanced GCE H487 Unit F796

Fieldwork Task Enquiry Form

e-mail to GCESciencetasks@ocr.org.uk

Unit F793	✓
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Unit F796	
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Centre Name	<i>West School</i>	Centre Number	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
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Contact Name	<i>A Sandy</i>	Year of Assessment	<i>2</i>	<i>0</i>	<i>0</i>	<i>9</i>
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Please complete details of the proposed field task and attach your *student work sheets*.
Complete the grid on page 2 for the mark scheme.

Locality and Grid Reference for fieldwork task.

Kimmeridge Bay, Dorset. GR 906791 Localities for the steps to 100m east and 500m west to edge of firing range

Brief description. (Rock types, sedimentary structures, age, fossils etc).

Upper Jurassic oil shale, dolomitic limestone and shales of Kimmeridge Clay. Cut by faults and mineral veins with jointing on limbs and crest of a gentle anticline.

Quantitative measurements to be taken

Dip of beds, fault and fold limbs; thickness of beds; throw of fault; size of slickensides striations; directions and frequency of joints on limbs and crest of the anticline

Qualitative observations to be made

Descriptions of the rock types - shale; dolomitic limestone, bituminous shales; observations of fossils and mineral veins; descriptions of the fold, fault, joint and slickensides structures

Details of techniques to be carried out (Graphic log, field sketch, mapping etc).

Field sketches of fault and fold structures fully labelled

Descriptions of all features

Measurements of joint data

Comments by assessor

Assessable learning outcomes (ALOs)

a	(i) demonstrate skilful and safe practical techniques using suitable qualitative methods. 4 +/- 1 marks (ii) demonstrate skilful and safe practical techniques using suitable quantitative methods 4 +/- 1 marks
b	(i) make and record valid observations; organise results suitably. 6 +/- 1 marks (ii) make and record accurate measurements to an appropriate precision. 6 +/- 1 marks

ALOs	Mark Scheme <i>(insert or delete rows as necessary)</i>	Mark
<i>a a a</i>	<i>dip of beds, fault and fold limbs measured using clinometer. consideration of true dip and apparent dip on bedding planes as an observation by the teacher all measurements accurate 3 marks; most measurements accurate 2 marks some measurements accurate 1 mark</i>	<i>3</i>
<i>a a a</i>	<i>thickness of beds; throw of fault; size of slickensides striations measured using tapes and ruler all measurements accurate 2 marks some measurements accurate 1 mark safety issues considered - hard hats at base of cliff, state of tides, army range warning signs, very slippery ledges</i>	<i>2 1</i>
<i>a a</i>	<i>directions and frequency of joints on limb and crest of the anticline measured using compass at both locations. Good strategy required for quality measurements - transect or specified area.</i>	<i>2 1</i>
<i>b b</i>	<i>high quality field sketches of fault structures fully labelled 2 marks field sketches of fault structures partly labelled 1 mark</i>	<i>2</i>
<i>b b</i>	<i>high quality field sketches of fold structures fully labelled 2 marks field sketches of fold structures partly labelled 1 mark</i>	<i>2</i>
<i>a a</i>	<i>descriptions of the rock types - shale; dolomitic limestone, bituminous shales detailed observations 3 marks; good observations 2 marks simple observations 1 mark</i>	<i>3</i>
<i>a b b</i>	<i>descriptions of structures: fault, fold, slickensides, joints detailed descriptions 3 marks; good descriptions 2 marks simple descriptions 1 mark</i>	<i>3</i>
<i>b b</i>	<i>observations or sketches of fossils and mineral veins;</i>	<i>1</i>
		[20]

Approved by

Date

You should allow a period of six weeks between submission of this form to OCR and its return.