

## Geology

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

**Fieldwork Task Enquiry Form**

e-mail to [GCEsciencetasks@ocr.org.uk](mailto:GCEsciencetasks@ocr.org.uk)

Unit F793	✓	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 and a photograph or sketch of each site.

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

<b>ALOs</b>	<b>Mark Scheme</b> <i>(insert or delete rows as necessary)</i>	<b>Mark</b>
<i>a ii b ii</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 ii b ii</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 ii b ii</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>bi</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>bi</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>ai</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>ai bi</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>bi</i>	<i>observations or sketches of fossils and mineral veins;</i>	<i>1</i>
		<b>[20]</b>

Approved by

Date

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