



RECOGNISING ACHIEVEMENT

# GCSE in Manufacturing

**OCR J505 (Single Award) in Manufacturing J510 (Double Award) in Manufacturing Unit B231**
**Unit Recording Sheet**

Please read the instructions printed at the end of this form. One of these sheets, suitably completed, should be attached to the assessed work of each candidate.

<b>Unit Title</b>	<b>1A Study of a Manufactured Product</b>	<b>Unit Code</b>	<b>B231</b>	Season Jan / June	<b>Year</b>	<b>2</b>	<b>0</b>		
<b>Centre Name</b>		<b>Centre Number</b>							
<b>Candidate Name</b>		<b>Candidate Number</b>							

<b>Unit B231 1A Study of a Manufactured Product</b> For the manufactured products studied the candidate:			<b>Teacher Comment</b>	<b>Page</b>
<b>Marking Criteria – total mark for this unit is 90</b>				
<p><b>Has basic ability,</b> gives a basic description of:</p> <ul style="list-style-type: none"> <li>the impact of modern technologies, smart materials and components on their development;</li> <li>the advantages and disadvantages that the use of modern technology has brought to society.</li> </ul> <p style="text-align: right;"><b>[0 1 2 3]</b></p>	<p><b>Demonstrates an ability</b> gives a description of:</p> <ul style="list-style-type: none"> <li>the impact of modern technologies, smart materials and components on their development;</li> <li>the advantages and disadvantages that the use of modern technology has brought to society.</li> </ul> <p style="text-align: right;"><b>[4 5 6]</b></p>	<p><b>Works competently</b> gives a fully detailed description of:</p> <ul style="list-style-type: none"> <li>the impact of modern technologies, smart materials and components on their development;</li> <li>the advantages and disadvantages that the use of modern technology has brought to society.</li> </ul> <p style="text-align: right;"><b>[7 8 9]</b></p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: auto;"> <p style="text-align: center; margin: 0;">Mark</p> </div>	
<p>gives a basic explanation of the use of materials and components and some of their:</p> <ul style="list-style-type: none"> <li>properties;</li> <li>characteristics;</li> <li>performance; and</li> <li>cost.</li> </ul> <p>There will be little or no use of specialist terms. Answers may be ambiguous or disorganised. Errors of spelling, punctuation and grammar may be intrusive.</p> <p style="text-align: right;"><b>[0 1 2 3]</b></p>	<p>gives a detailed explanation of the use of materials and components and their:</p> <ul style="list-style-type: none"> <li>properties;</li> <li>characteristics;</li> <li>performance; and</li> <li>cost.</li> </ul> <p>There will be some use of specialist terms, although these may not always be used appropriately. The information will be presented for the most part in a structured format. There may be occasional errors in spelling, punctuation and grammar.</p> <p style="text-align: right;"><b>[4 5 6]</b></p>	<p>gives a fully detailed and justified explanation of the use of materials and components and their:</p> <ul style="list-style-type: none"> <li>properties;</li> <li>characteristics;</li> <li>performance; and</li> <li>cost.</li> </ul> <p>Specialist terms will be used appropriately and correctly. The information will be presented in a structured format. The candidate can demonstrate the accurate use of spelling, punctuation and grammar.</p> <p style="text-align: right;"><b>[7 8 9]</b></p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: auto;"> <p style="text-align: center; margin: 0;">Mark</p> </div>	
<p>gives a basic explanation of the:</p> <ul style="list-style-type: none"> <li>manufacturing processes used.</li> </ul> <p style="text-align: right;"><b>[0 1 2]</b></p>	<p>gives a detailed explanation of the:</p> <ul style="list-style-type: none"> <li>manufacturing processes used.</li> </ul> <p style="text-align: right;"><b>[3 4]</b></p>	<p>gives a fully detailed and justified explanation of the</p> <ul style="list-style-type: none"> <li>manufacturing processes used.</li> </ul> <p style="text-align: right;"><b>[5 6]</b></p>	<div style="border: 1px solid black; width: 60px; height: 60px; margin: auto;"> <p style="text-align: center; margin: 0;">Mark</p> </div>	

Unit B231 1B Manufacturing a Product Using the Client Design Brief for a manufactured product the candidate:			Teacher Comment	Page
Marking Criteria – total mark for this unit is 90				
<p><b>Has basic ability,</b> suggests, with some explanation, limited:</p> <ul style="list-style-type: none"> <li>• modifications to design solutions;</li> <li>• sustainability issues.</li> </ul> <p style="text-align: right;"><b>[0 1 2]</b></p>	<p><b>Demonstrates an ability</b> suggests and explains:</p> <ul style="list-style-type: none"> <li>• modifications to design solutions;</li> <li>• sustainability issues.</li> </ul> <p style="text-align: right;"><b>[3 4]</b></p>	<p><b>Works competently</b> suggests and explains in detail:</p> <ul style="list-style-type: none"> <li>• modifications to design solutions;</li> <li>• sustainability issues.</li> </ul> <p style="text-align: right;"><b>[5 6]</b></p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div>	
<p>provides a basic analysis of the client brief;</p> <p>produces and partially applies a design specification.</p> <p style="text-align: right;"><b>[0 1 2 3]</b></p>	<p>provides an analysis of the client brief;</p> <p>produces and applies a design specification.</p> <p style="text-align: right;"><b>[4 5 6]</b></p>	<p>provides a detailed and justified analysis of the client brief;</p> <p>produces and fully applies a justified design specification.</p> <p style="text-align: right;"><b>[7 8 9]</b></p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div>	
<p>develops a range of basic annotated design ideas giving some consideration of:</p> <ul style="list-style-type: none"> <li>• materials;</li> <li>• material constraints.</li> </ul> <p>presents, with limited explanation, the selection of design solution for the manufactured product.</p> <p style="text-align: right;"><b>[0 1 2 3 4]</b></p>	<p>develops a range of annotated design ideas considering:</p> <ul style="list-style-type: none"> <li>• materials;</li> <li>• material constraints.</li> </ul> <p>presents and explains the selection of design solution for the manufactured product</p> <p style="text-align: right;"><b>[5 6 7 8]</b></p>	<p>develops a wide range of annotated design ideas fully considering:</p> <ul style="list-style-type: none"> <li>• materials;</li> <li>• material constraints;</li> </ul> <p>presents and fully justifies the selection of a design solution for the manufactured product.</p> <p style="text-align: right;"><b>[9 10 11 12]</b></p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div>	
<p>makes a prototype of the design solution.</p> <p style="text-align: right;"><b>[0 1 2 3 4 5 6]</b></p>	<p>makes a complete, quality prototype of the design solution.</p> <p style="text-align: right;"><b>[7 8 9 10 11 12]</b></p>	<p>makes a complete, high quality prototype of the design solution.</p> <p style="text-align: right;"><b>[13 14 15 16 17 18]</b></p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div>	
<p>safely uses a limited range of materials, parts and components, processes, tools and equipment.</p> <p style="text-align: right;"><b>[0 1 2 3]</b></p>	<p>selects and safely uses an appropriate range of materials, parts and components, processes, tools and equipment.</p> <p style="text-align: right;"><b>[4 5 6]</b></p>	<p>selects and safely uses a wide range of appropriate materials, parts and components, processes, tools and equipment.</p> <p style="text-align: right;"><b>[7 8 9]</b></p>	<div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <b>Mark</b> </div>	

Unit B231 1B Manufacturing a Product Using the Client Design Brief for a manufactured product the candidate:					Teacher Comment	Page
Marking Criteria – total mark for this unit is 90					Mark	
<b>Has basic ability,</b>  suggests basic modifications to the design solution and original specification giving consideration to the use of modern materials, processes and technologies;  gives a basic explanation of how the product could be batch produced.  <p style="text-align: right;"><b>[0 1 2 3 4]</b></p>	<b>Demonstrates an ability</b>  suggests detailed modifications to the design solution and original specification giving consideration to the use of modern materials, processes and technologies;  gives an explanation of how the product could be batch produced.  <p style="text-align: right;"><b>[5 6 7 8]</b></p>	<b>Works competently</b>  suggests detailed and justified modifications to the design solution and original specification giving consideration to the use of modern materials, processes and technologies;  gives a detailed and justified explanation of how the product could be batch produced.  <p style="text-align: right;"><b>[9 10 11 12]</b></p>	<b>Total/ 90</b>			
If this work is a re-sit, please tick		Session and Year of previous submission	Jan / June	<b>2</b> <b>0</b>	Please tick to indicate this work has been standardised internally	

### Guidance on Completion of this Form

Please note: This form may be updated on an annual basis. The current version of this form will be available on the OCR website ([www.ocr.org.uk](http://www.ocr.org.uk)).  
Please complete one *Centre Authentication Form* (CCS160) for each unit and forward to the moderator with your sample.

### Guidance on Completion of this Form

- 1 **One** sheet should be used for each candidate.
- 2 Please ensure that the appropriate boxes at the top of the form are completed.
- 3 Please enter *specific* page numbers where evidence can be found in the portfolio, and where possible, indicate to which part of the text in the mark band the evidence relates.
- 4 Circle the mark awarded for each strand of the marking criteria in the appropriate box and enter the circled mark in the final column.
- 5 Add the marks for the strands together to give a total out of 90 Enter this total in the relevant box.