



National 5
Coursework
Assessment Task



National 5 Graphic Communication Assignment Finalised Marking instructions

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General marking principles

This information is provided to help you understand the general principles that must be applied when marking candidate responses in this assignment. These principles must be read in conjunction with the detailed marking instructions, which identify the key features required in candidate responses.

- a Marks for each candidate response must **always** be assigned in line with these general marking principles and the detailed marking instructions for this assessment.
- b Marking should always be positive. This means that, for each candidate response, marks are accumulated for the demonstration of relevant skills, knowledge and understanding: they are not deducted from a maximum on the basis of errors or omissions.
- c If a specific candidate response is not covered by either the general marking principles or detailed marking instructions, you must seek guidance from your team leader.

Marking instructions for each question

In all cases, where the candidate's work does not meet the lowest range statement, or where no evidence is provided, then zero marks should be awarded.

Task	Expected response	Max mark	Additional guidance
1.	<p>(a) Related views using 3rd angle projection of each component. Must be fully correct, including hidden detail:</p> <ul style="list-style-type: none"> • rubber ring (1 mark) • microphone top (1 mark) • microphone body <ul style="list-style-type: none"> ○ all features correct except buttons (1 mark) ○ buttons correct (1 mark) • microphone stand <ul style="list-style-type: none"> ○ base and stem features (including R3 fillets) correct (1 mark) ○ claw feature correct (1 mark) <p>Enough dimensioning to allow for manufacture (1 mark)</p> <ul style="list-style-type: none"> • rubber ring (All dimensions required) • microphone top (All dimensions required) • microphone body (Max of 1 dimension missing) • microphone stand (Max of 1 dimension missing) <p>Correct orientation of the elevation of all components (1 mark)</p>	8	<p>If candidate has not dimensioned the individual components, marks should be awarded where the views contain all relevant features and appropriate proportion.</p> <p>You may wish to look at other evidence in this task to help you make your judgement.</p> <p>Where evidence of dimensioning shows the potential for automatic rounding up having taken place due to a decimal point, award the mark for the component being correct.</p> <p>Apply follow on rule where appropriate.</p> <p>Where candidates have manually edited dimensions to hide a modelling error, do not award the single mark for that bullet point.</p> <p>If a candidate has removed the 4 curved hidden lines which are missing from the data sheets from their plan of the microphone body, ignore this when awarding the marks for this component.</p> <p>1 out of the 4 R30 dimensions on the microphone body is sufficient.</p>

Task		Expected response	Max mark	Additional guidance
1.	(b)	<ul style="list-style-type: none"> accurate assembly - no overlaps or gaps (1 mark) sectional view cutting through the centre of all components (1 mark) all views related and orientated correctly and produced to a scale of 1:2 (1 mark) 	3	Apply follow on rule where appropriate.
	(c)	<ul style="list-style-type: none"> correct orientation (isometric and orientation from data sheet 1a) (1 mark) correct spacing and alignment - no overlap of components (1 mark) 	2	<p>All components must be exploded to achieve full marks.</p> <p>Where colour/shading has been applied, only award marks where visible edges (lines) are evident.</p> <p>Where only a fully rendered image is provided a maximum of 1 mark can be awarded if the spacing and alignment is correct.</p> <p>Apply follow on rule where appropriate.</p>
	(d)	<ul style="list-style-type: none"> sufficient range of evidence with some inconsistencies across all drawings (2 marks) sufficient range of evidence with many inconsistencies (1 mark) poor range of evidence and many inconsistencies (0 marks) 	2	<p>If most centre lines are missing across the views, a maximum of one mark can be awarded.</p> <p>Evidence will come from:</p> <ul style="list-style-type: none"> centre lines dimensioning suitable scale line types view labels component titles 3rd angle symbol 3rd angle projection title blocks correct hatching

Task		Expected response	Max mark	Additional guidance
2.	(a)	<p>Suitable materials used for each part:</p> <ul style="list-style-type: none"> • rubber ring - rubber • microphone top - mesh • microphone body - plastic (any colour except black) • microphone stand - metal <p>AND</p> <p>Appropriate lighting/highlights/shadows and pictorial view. (1 mark)</p> <p>Mesh correctly scaled. (1 mark)</p>	2	Evidence may be found across the assignment task.
	(b)	<p>Both layouts/thumbnails contain the logo, company name, at least one piece of the extended text and any of the images used from the data sheets. (1 mark)</p> <p>Clarity of the layouts/thumbnails. (1 mark)</p>	2	These should be clearly identified either by labelling the thumbnails or easily identified as part of the thumbnails.

Task		Expected response	Max mark	Additional guidance
2.	(c)	Correct size/proportion of layout. (1 mark)	11	Markers should measure this to ensure accuracy.
				Ratio (long side/short side) between 1.33 and 1.37 inclusive.
		<ul style="list-style-type: none"> correct identification of reverse text (1 mark) 		
		<ul style="list-style-type: none"> inclusion of all of the following: one image from data sheets, extended text, company name and logo (2 marks) inclusion of two of the following: one image from data sheets, extended text, company name and logo (1 mark) inclusion of one or none of the following: one image from data sheets, extended text, company name and logo (0 marks) 		
		<ul style="list-style-type: none"> correct identification of three design elements and principles (3 marks) 		1 mark for each design element correctly identified from the list below: <ul style="list-style-type: none"> Alignment (min 2 elements identified) Contrast (min 2 elements identified) Depth Dominance Line Unity (min 2 elements identified) Use of colour (warm, cool, contrast, harmony, advancing, receding, mood)
		<ul style="list-style-type: none"> excellent quality visual impact (4 marks) high quality visual impact (3 marks) good quality visual impact (2 marks) fair quality visual impact (1 mark) poor quality visual impact (0 marks) 		Where an image has been used that has not been supplied by SQA or made by the candidate no marks can be awarded.

Task		Expected response	Max mark	Additional guidance
3.	(a)	<p>For each component visible outlines correct:</p> <ul style="list-style-type: none"> • ring light - 3 views (1 mark) • rod - 2 views (1 mark) • stand - 3 views (1 mark) <p>All hidden detail shown. (1 mark)</p> <p>Application or proportion across all sketches. (1 mark)</p> <p>Application of construction/projection across all sketches. (1 mark)</p>	6	<p>Use of straight edge is permitted.</p> <p>Clear evidence of the use of drawing board with set squares in producing these sketches will result in no marks being awarded.</p> <p>Evidence of 3D CAD used for this task will result in no marks awarded.</p> <p>If a part is drawn in the wrong orientation, a mark cannot be awarded for the visible outlines of that part. Apply follow on rule where appropriate.</p> <p>The cylinder feature on the top of the stand must be positioned centrally on the plan to award the mark for the stand.</p> <p>Clear difference between construction lines and outlines.</p> <p>If hidden detail is incorrect then do not consider hidden detail when marking projection.</p>

Task		Expected response	Max mark	Additional guidance
3.	(b)	<u>Sketching</u> Good quality sketching (2 marks) Fair quality sketching (1 mark) Poor quality sketching (0 marks) <u>Rendering</u> Good quality rendering (2 marks) Fair quality rendering (1 mark) Poor quality rendering (0 marks)	4	No marks for any areas traced from data sheets 3a, 3b or 3c. Rendering must clearly show materials to be awarded full marks. <ul style="list-style-type: none"> • ring light - plastic • rod - plastic • stand - metal No marks awarded for poor quality rendering.

[END OF MARKING INSTRUCTIONS]